

9-10 EDWARD VII.

SESSIONAL PAPER No. 13

A. 1910

REPORTS, RETURNS AND STATISTICS
OF THE
INLAND REVENUES
OF THE
DOMINION OF CANADA
FOR THE YEAR ENDED MARCH 31
1909

PART II

INSPECTION OF WEIGHTS AND MEASURES
GAS AND ELECTRICITY

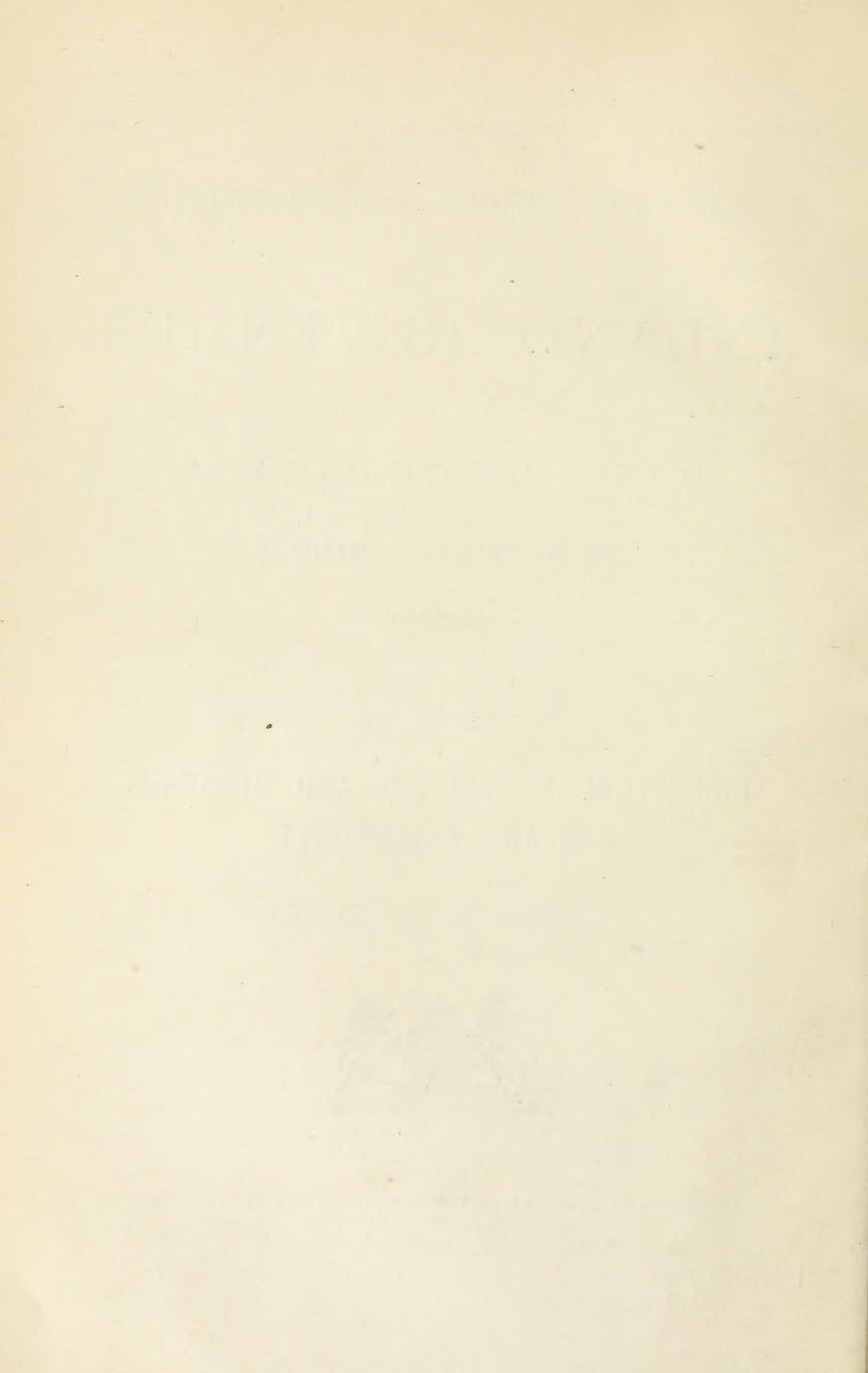
PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST
EXCELLENT MAJESTY
1909

[No. 13-1910.]



REPORT
 OF THE
DEPUTY MINISTER OF INLAND REVENUE
 ON THE
INSPECTION OF WEIGHTS AND MEASURES, GAS AND ELECTRICITY

To the Honourable
 The Minister of Inland Revenue.

SIR,—I have the honour to submit herewith my annual report on the inspection of weights and measures, gas and electricity, with the usual statements in connection therewith, for the Fiscal Year ended March 31, 1909.

1. The total revenue collected during the year for the inspection of weights and measures, was \$80,287.05, as against \$83,021.32 collected during the twelve months ended March 31, 1908.

2. The total expenditure was \$104,255.67 as against \$101,492.24 expended during the year ended March 31, 1908.

3. Appendix 'A' gives a summary statement of the receipts and expenditures of each inspection division.

4. In Appendices 'B,' 'C' and 'D' will be found a detailed statement of weights, measures and weighing machines presented for verification, verified and rejected during the year. The number of all descriptions may be summarily stated as follows:

—	Presented.	Verified.	Rejected.	Percentage of Rejections.
Weights, Dominion.....	69,906	69,607	299	0·43
Measures of capacity, Dominion.....	105,306	105,252	54	0·05
Lineal measures.....	7,953	7,818	135	1·73
Balances, equal arms	14,518	14,284	234	1·64
" steelyards.....	5,430	5,343	87	1·63
" platform scales	38,372	37,259	1,113	2·93
Miscellaneous weights.....	999	997	2	0·20
" measures of capacity	14,241	14,229	12	0·08
" balances.....	30,486	30,389	97	0·32

9-10 EDWARD VII., A. 1910

INSPECTION OF GAS.

5. The total revenue collected during the twelve months ended March 31, 1908, for the inspection of gas and gas meters, was \$44,032.50, as compared with \$48,604.21, collected during the year ended March 31, 1909.

6. The total expenses were \$31,014.35 as against \$35,515.36 expended during the year ended March 31, 1909.

7. Appendix 'E' gives a summary statement of the receipts and expenditures of each gas inspection district.

8. A statement of the illuminating power and purity of gas inspected during the year will be found in Appendix 'F.'

9. The illuminating power, where inspection has been made, has been as follows:—

Places.	Number of tests made.	Number of times below Standard.	Places.	Number of tests made.	Number of times below Standard.
Barrie....	12		St. Catharines.....	12	
Belleville.....	23	1	St. Thomas.....	13	1
Berlin.....	12		Toronto.....	105	
Brockville.....	23		Windsor.....	18	5
Cobourg.....	12		Woodstock.....	12	
Cornwall.....	12		Montreal	104	
Deseronto.....	11		Quebec.....	12	
Guelph.....	12		Sherbrooke.....	12	2
Hamilton.....	26		St. Hyacinthe.....	12	
Ingersoll	13	4	Fredericton.....	10	
Kingston.....	23		Moncton.....	12	
Listowel.....	12		St. John, N.B.....	25	
London.....	104	5	Halifax	12	
Napanee.....	6		Yarmouth.....	12	
Ottawa.....	104		Charlottetown.....	24	5
Owen Sound.....	12		Winnipeg.....	101	
Peterborough.....	24		Nanaimo.....	7	
Port Hope.....	12		New Westminster	9	
Sarnia	12		Vancouver	58	
Stratford.....	11		Victoria.....	6	

The revenue derived from the inspection of electricity was as follows:—

Fees for inspection of meters, &c.....	.....	\$43,909 25
The expenses of inspection (annual).....	.....	\$12,817 55
Expended on standard instruments, &c.....	.....	5,691 80
	.....	18,509 35
Leaving a net revenue of.....	.....	\$25,399 90

SESSIONAL PAPER No. 13

Since the year 1896-97 the two services of gas and electricity inspection, which are conducted largely by the same staff of officers have reached that point at which they have ceased to be a burden upon the general taxpayer, as shown below:—

YEARS.	GAS AND ELECTRIC LIGHT.			
	Revenue.	Expenditure.		
	\$	cts.	\$	cts.
*1899-1900.....	35,523	50	26,424	48
*1900-01.....	37,536	57	28,247	20
1901-02.....	43,663	05	33,328	48
1902-03.....	49,054	55	36,006	47
1903-04.....	50,218	75	33,426	15
1904-05.....	62,561	37	34,774	02
1905-06.....	76,539	00	38,917	48
1906-07 (nine months).....	57,868	18	30,793	84
1907-08.....	86,552	20	48,831	75
1908-09.....	92,450	21	54,018	71

* Exclusive of cost of standard instruments.

On July 1, 1909, there will be brought into effect new schedules of fees for the inspection of meters, for gas and electricity, which will tend to decrease the revenue from these sources. If found practicable future reductions may be made which will probably result in more nearly equalizing the revenue and expenditure in connection with these services.

The kindred service of weights and measures inspection, it will be observed, earns about 77 per cent of its actual cost, the expenditure as already stated having been \$104,255.67 against a revenue of \$80,218.80.

The International Commission on Electric Units and Standards met in London, England, in the month of October last and the International Congress of Applied Electricity met in Marseilles during the same month.

Mr. Ormand Higman, Chief Electrical Engineer, as Canadian representative, attended both meetings and a copy of his report, together with the report of the International Conference, is appended hereto.

The Department has, in the last few years, sent out, for use in educational institutions, over seven hundred sample sets of metric weights and measures. The supply is now exhausted and no additional sets have yet been ordered.

I have the honour to be, sir,
Your obedient servant,

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

INTERNATIONAL CONFERENCE ON ELECTRICAL UNITS AND STANDARDS, 1908.

W. J. GERALD, Esq.,
Deputy Minister, Inland Revenue,

SIR,—In submitting my report of the International Conference on Electrical Units and Standards, I beg to state that previous to 1904 it had been admitted, for some time, that the realizations of the fundamental electrical units in the various countries were not identical. The difference was especially noticeable in the case of the volt which has been legalized, in some countries in terms of the ampere and ohm in other countries as the E.M.F. of a standard cell. The difference between the two values of the volt was about 8 parts in 10,000. In the case of the ampere and the ohm the differences though smaller were, in general, quite appreciable.

This subject was very fully considered at the International Electrical Congress held in St. Louis in connection with the Louisiana Purchase Exposition in 1904, and the Chamber of Delegates appointed by the various governments represented at this Conference adopted the following report at its third meeting:—

‘It appears from papers laid before the International Electrical Congress and from the discussion that there are considerable discrepancies between the laws relating to electrical units, or their interpretations, in the various countries represented, which, in the opinion of the chamber, require consideration with a view to securing practical uniformity.

‘Other questions bearing on nomenclature and the determination of units and standards have also been raised on which in the opinion of the chamber it is desirable to have international agreement.

‘The Chamber of Delegates consider that these and similar questions could best be dealt with by an international commission representing the governments concerned. Such a commission might, in the first instance, be appointed by those countries in which legislation on electric units has been adopted, and consist of, say, two members from each country.

‘Provision should be made for securing the adhesion of other countries prepared to adopt the conclusions of the commission.

‘The Chamber of Delegates approves such a plan, and requests its members to bring this report before their respective governments.

‘It is hoped that if the recommendation of the Chamber of Delegates be adopted by the Governments represented, the commission may eventually become a permanent one.’

Further, at the fourth and final meeting of the Chamber of Delegates, the following resolution was adopted:—

‘That the delegates report the resolution of the Chamber as to electrical units to their respective Governments, and that they be invited to communicate with S. W. Stratton (Bureau of Standards, Washington, D.C.), and Dr. R. T. Glazebrook (National Physical Laboratory, Bushy House, Teddington, Middlesex, England), as to the results of their report, or as to other questions arising out of the resolution.’

On their return from St. Louis the British delegates reported to the Foreign Office, and asked the government to arrange for an International Conference. In March, 1905, the matter was referred to the Board of Trade, who appointed a Committee to report on the matter. In the meantime certain informal correspondence between the heads of the various standardizing laboratories led up to the Reichsanstalt inviting, in June, 1905, the representatives of the laboratories to an informal conference at Charlottenburg.

The proceedings of this Conference were circulated to the delegates at the present Conference by Prof. Warburg. The decisions and resolutions are given in Appendix 1.

SESSIONAL PAPER No. 13

In the commencement of 1906 the Board of Trade Committee, after considering the action taken in Charlottenburg, reported that steps should be taken to convoke an International Conference on Electrical Units and Standards. This Committee recommended that the Conference should be held in London during October, 1906.

In April, 1906, the Foreign Office invited various countries to send representatives to the proposed Conference.

As a result of a representation received from the French government in July, 1906, to the effect that a French Conference was engaged on the question of Electrical Units the International Conference was postponed until October, 1907, as it was thought that the decision arrived at by the French Conference might be of material assistance.

In 1907, representations were received from Prof. Mascart and Dr. Warburg suggesting that further delay was desirable. The meeting of the Conference was therefore again postponed.

In June of last year the Foreign Office issued an invitation to all the Foreign governments to take part in an International Conference to be held in October in London and at the same time circulated a memorandum as to the proposals to be laid before the Conference which reads as follows:—

Memorandum as to the proposals to be laid before the Conference on Electrical Units and Standards to be held in London in October, 1908.

The general object of the International Conference on Electrical Units and Standards which is to meet on the invitation of His Majesty's government in London in October, 1908, is to consider and advise as to the steps which should be taken to bring about the agreement in the definition of Electrical Units which form the basis of legislation in different countries, and in the methods of constructing and employing the electrical standards necessary to give effect to these definitions.

It is hoped that the delegates to the Conference may find themselves able to embody their conclusions in draft articles which might be commended to the several Governments represented as a basis for uniform legislation and administration in relation to electrical units and standards.

The fundamental units of electrical measurement are the ohm, the ampere, and the volt. Of these, two are primary units, being independent, and the other secondary or derived. It is generally agreed that the ohm should be accepted as one of the primary units. There is some difference of opinion as to whether the ampere or volt should be the second. This point will be one for the Conference to consider.

Again, the ohm is realized by means of the resistance of a column of mercury of definite dimensions, the ampere by means of the electrolytic deposition of silver and the volt by aid of a standard cell.

If this method of realizing the units be accepted by the Conference, specifications for the ohm and the ampere will call for consideration, while the standard cell must be selected and the method of setting it up prescribed.

In view of the scientific questions raised in connection with each of these matters, including also the choice of the two primary units, it will be suggested at an early meeting of the Conference, should such a course appear to be desirable, that the Conference should appoint a small Technical Committee of experts to discuss the question and report thereon, to the Conference.

The Conference will also be asked to consider the best methods of securing uniformity of administration in the future, and for arriving at a decision on any questions left undecided at the close of the Conference.

It is desirable to have some definite questions before the Conference, and with this object the following propositions embodying conclusions arrived at by the representatives of the various National Standardizing Laboratories which met at the Reichsanstalt in 1906, and which are also generally in accordance with the decision of the Chicago Congress held in 1893, will be brought forward as a basis for discussion.

- (1) That the ohm shall be the first primary unit.

- (2) That the ampere shall be the second primary unit.
- (3) That in consequence the volt shall be treated as a secondary or derived unit.
- (4) That the international ohm be defined as the resistance at the temperature of melting ice of a column of mercury of uniform cross section terminated by planes at right angles to its length 106.3 centimetres in length and 14.4521 grammes in mass.
- (5) That the international ampere be defined as the unvarying Electrical Current which, when passed through a solution of nitrate of silver in water, deposits silver at the rate of 0.001118 gramme per second.
- (6) That the international volt be defined as that electro-motive force which when applied steadily between the ends of a conductor of resistance of 1 international ohm produces a current of 1 international ampere.
- (7) That the Weston Cadmium Cell be adopted as a convenient standard of electro-motive force, having at a temperature of 17°C an E.M.F. of _____ international volts, but that it is undesirable that the number representing the E.M.F. of this Cell should be the subject of legislation in any country.
- (8) That specifications dealing with the methods of setting up mercury standards of resistance, of realizing the ampere by the deposition of silver and of preparing standard cells, be issued with the authority of the Conference, and that for this purpose a Technical Committee be appointed to prepare these specifications.
- (9) That the Conference consider and advise as to the best method of securing uniformity with regard to the fundamental electrical standards for the future.

In the Chicago resolutions of 1893 the Volt was declared to be 'the electro-motive force that, steadily applied to a conductor whose resistance is one ohm, will produce a current of one ampere and which is represented sufficiently well for practical use by $\frac{1000}{1434}$ of the electro-motive force between the poles or electrodes of the voltaic cell known as Clark's Cell, at a temperature of 15° centigrade when prepared in accordance with a certain specification'.

The volt in the accompanying report as adopted by the London Conference is in terms of the ohm and ampere and is specified as follows 'the international volt is the electrical pressure which, when steadily applied to a conductor whose resistance is one international ohm will produce a current of one international ampere.' It is further stated that the Weston Normal Cell may be conveniently employed as a standard of electric pressure for the measurement both of E.M.F. and of current, and when set up in accordance with the specification provisionally as having, at a temperature of 20°C. an electro-motive-force or 1.0184 volts. It will thus be seen that the Weston Normal Cell supersedes the Clark cell as a standard of electro-motive-force and this change will necessitate an amendment to the Act respecting the units of electrical measure.

The primary units—the ohm and the ampere remain unchanged. It was intended by the Conference to drop all definitions apart from the ohm, ampere and volt but in view of the strong representations made by the Canadian delegate as to the necessity for defining the commercial unit of supply the Conference reconsidered its determination and defined the watt. As electrical energy on this continent is bought and sold almost entirely in terms of the watt and kilowatt the necessity for an authoritative definition of this unit was perfectly obvious.

As now defined by the Conference the resolution reads: 'The international watt is the energy expended per second, by an unvarying electric current of one international ampere under an electric pressure of one international volt.'

It is recommended that the Electrical Units Act be amended at the next session of Parliament so as to embody the new definitions of the Conference.

I remain, sir,

Your obedient servant,

ORMOND HIGMAN,

Chief Electrical Engineer

INTERNATIONAL CONFERENCE ON ELECTRICAL UNITS AND STANDARDS, 1908.

REPORT.

The Conference on Electrical Units and Standards for which invitations were issued by the British government, was opened by the President of the Board of Trade, The Right Hon. Winston S. Churchill, M.P., on Monday, 12th October, 1908, at Burlington House, London, S. W.

Delegates were present from twenty-one countries, and also from the following British Dependencies, namely, Australia, Canada, India and the Crown Colonies.

It was decided by the Conference that a vote each should be allowed to Australia, Canada and India, but a vote was not claimed or allowed for the Crown Colonies.

The total number of delegates to the Conference was forty-six, and their names are set out in Schedule A to this report.

The officers of the Conference were :—

President—The Right Hon. Lord Rayleigh, O.M., President of the Royal Society.

Vice-Presidents—Professor S. A. Arrhenius, Dr. M. Egoroff, Dr. Viktor Edler von Lang, M. Lippmann, Dr. S. W. Stratton, Dr. E. Warburg.

Secretaries—Mr. M. J. Collins, Mr. W. Duddell, F.R.S., Mr. C. W. S. Crawley, Mr. F. Smith.

The Conference elected a Technical Committee to draft specifications and to consider any matter which might be referred to the Committee and to report to the Conference.

The Conference and its Technical Committee each held five sittings.

As a result of its deliberation the Conference adopted the resolutions and specifications attached to this report and set out in Schedule B, and requested the Delegates to lay them before their respective governments with a view to obtaining uniformity in the legislation with regard to Electrical Units and Standards.

The Conference recommend the use of the Weston Normal Cell as a convenient means of measuring both electromotive force and current when set up under the conditions specified in Schedule C.

In cases in which it is not desired to set up the Standards provided in the resolutions Schedule B, the Conference recommends the following as working methods for the realisation of the international ohm, the ampere and the volt.

1. For the international ohm—

The use of copies, constructed of suitable material and of suitable form and verified from time to time, of the international ohm, its multiples and submultiples.

2. For the international ampere—

- (a) The measurement of current by the aid of a current balance standardized by comparison with a silver voltameter; or
- (b) The use of a Weston Normal Cell whose electromotive force has been determined in terms of the international ohm and international ampere, and of a resistance of known value in international ohms.

3. For the international volt—

- (a) A comparison with the difference of electrical potential between the ends of a coil of resistance of known value in international ohms, when carrying a current of known value in international amperes; or
- (b) The use of a Weston Normal Cell whose electromotive force has been determined in terms of the international ohm and international ampere.

The duties of specifying more particularly the conditions under which these methods are to be applied has been assigned to the Permanent Commission, and pending its appointment, to the Scientific Committee to be nominated by the President (see Schedule D), who will issue a series of Notes as Appendix to this Report.

The Conference has considered the methods that should be recommended to the governments for securing uniform administration in relation to Electrical Units and Standards, and expresses the opinion that the best method of securing uniformity for the future would be by the establishment of an International Electrical Laboratory with the duties of keeping and maintaining International Electrical Standards. This Laboratory to be equipped entirely independently of any National Laboratory.

The Conference further recommends that action be taken in accordance with the scheme set out in Schedule D.

Signed at London on 21st October, 1908, by the Delegates of their respective Countries.

For the United States of America :

S. W. STRATTON,
HENRY S. CARHART,
EDWARD B. ROSA.

For Austria :

VICTOR VON LANG,
LUDWIG KUSMINSKY.

For Belgium :

P. CLEMENT.

For Brazil :

LEOPOLD J. WEISS.

For Chili :

Victor EASTMAN.

For Colombia :

JORGE ROA.

For Denmark and Sweden :

SVANTE ARRHENIUS.

For Ecuador :

C. NEVARES.

For France :

G. LIPPMANN,
J. RENE BENOIT,
T. DE NERVILLE.

For Germany :

E. WRBURG, A
W. JAEGER,
S. LINDECK.

For Great Britain :

RAYLEIGH,
J. GAVEY,
R. T. GLAZEBROOK,
W. A. J. O'MEARA,
A. P. TROTTER,
J. J. THOMSON.

For Guatemala :

FRANCISCO DE ARCE.

For Hungary :

HARSANYI DESIRE,
VATER JOISEF.

For Italy :

ANTONIO ROITI.

For Japan :

OSUKE ASANO,
SHIGERU KONDO.

For Mexico :

ALFONSO CASTELLO.

For Netherlands :

DR. H. HAGA.

For Paraguay :

MAX F. CROSKEY.

For Russia :

N. EGOROFF,
L. SWENTORZETZKY.

For Spain :

JOSE MA. DE MADARIAGA,
A. MONTENEGRO.

For Switzerland :

DR. H. F. WEBER,
P. CHAPPUIS,
JEAN LANDRY.

For Australia :

C. W. DARLEY,
THRELFALL.

For Canada :

ORMOND HIGMAN.

For Crown Colonies :

P. CARDEW.

For India :

M. G. SIMPSON.

In the presence of :—

M. J. COLLINS,
W. DUDDELL,
C. W. S. CRAWLEY,
F. E. SMITH.

Secretaries

SCHEDULE A.

LIST OF COUNTRIES AND DELEGATES.

America (United States).—Dr. S. W. Stratton, Director, Bureau of Standards, Washington.

Dr. Henry S. Carhart, Professor of Physics at the University of Michigan.

Dr. E. B. Rosa, Physicist, Bureau of Standards, Washington.

Austria.—Dr. Viktor Edler von Lang, President of the Commission of Weights and Measures, Vienna.

Dr. Ludwig Kusminsky, Inspector of above Commission.

Belgium.—Professor Eric Gérard, Director of the Montefiore Electro-Technical Institution, and President of the Consultative Commission on Electricity.

Monsieur Clément, Secretary of the Consultative Commission on Electricity.

Brazil.—Mr. L. Weiss, Chef de la Section Technique des Télégraphes, Brésil.

Chili.—Don Victor Eastman, First Secretary to the Legation of Chili, London.

Columbia.—Don Jorge Roa.

Denmark and Sweden.—Professor S. A. Arrhenius, Nobel Institute, Stockholm.

Ecuador.—Senor Don Celso Nevares, Consul General.

France.—Professor Lippmann, Member of the Institute and Professor at the Sorbonne.

M. R. Benoit, Directeur du Bureau International des Poids et Mesures.

M. de Nerville, Ingénieur en chef des Télégraphes.

Germany.—Professor Warburg, President of the Imperial Physico-Technical Institute.

Professor Jaeger, Member of the Imperial Physico-Technical Institute.

Professor Lindeck, Member of the Imperial Physico-Technical Institute.

Great Britain.—The Right Hon. Lord Rayleigh, President of the Royal Society.

Professor J. J. Thomson, F.R.S., Cambridge.

Sir John Govey, C.B.

Dr. R. T. Glazebrook, F.R.S., Director of the National Physical Laboratory.

Major W. A. J. O'Meara, C.M.G., Engineer-in-Chief, General Post Office.

Mr. A. P. Trotter, Electrical Adviser to the Board of Trade.

Guatemala.—Dr. Francisco de Arce, Diplomatic Representative, London and Paris.

Hungary.—Joseph Vater, Directeur Technique des Postes et des Télégraphes, Budapest.

Dr. Desire Harsanyi, Director of the Hungarian Royal Commission for Weights and Measures.

Italy.—Professor Antonio Roiti, of Florence.

Japan.—Dr. Osuke Asano, Doctor of Engineering, Official Expert of the Department of Communications, Tokyo.

Mr. Shigeru Kondo, Official Expert of the Department of Communication, Tokyo.

Mexico.—Don Alfonso Castello.

Don José María Pérez.

Netherlands.—Dr. Haga, Professor at the University of Groningen.

Paraguay.—M. Maximo Croskey.

Russia.—Dr. N. Egoroff, D.Sc., Director of the General Chamber of Weights and Measures.

Col. L. Swentorzetzky, Ingénieur Militaire, Prof. de l'Académie Militaire Nicolas des Ingénieurs, St. Petersburg.

Spain.—Don Jose Maria Madariaga, Professor of Electricity and Physics at the School of Mines, Madrid.

Don A. Montenegro, Ingénieur Professeur du laboratoire de l'Ecole de Mines, Madrid.

Switzerland.—Dr. Fr. Weber, Professor at the Swiss Polytechnic School at Zurich

Dr. Pierre Chappuis, Membre Honoraire du Bureau international des Poids et Mesures.

Dr. J. Landry, Professor of Industrial Electricity in the University, Lausanne.

British Colonies: Australia.—Mr. Cecil W. Darley, I.S.O., Late Inspecting and Consulting Engineer, New South Wales Government.

Professor Therlfall, M.A., F.R.S.

Canada.—Mr. Ormond Higman, Chief Electrical Engineer, Electric Standards Laboratory, Ottawa.

Crown Colonies.—Major P. Cardew, Electrical Adviser.

India.—Mr. M. G. Simpson, Electrician of the Indian Telegraph Department.

Secretaries :

MR. M. J. COLLINS.

MR. W. DUDDELL, F.R.S.

MR. C. W. S. CRAWLEY.

MR. F. E. SMITH.

SCHEDULE B.

RESOLUTIONS.

The Conference agrees that as heretofore the magnitudes of the fundamental electric units shall be determined on the electro-magnetic system of measurement with reference to the centimetre as the unit of length, the gramme as the unit of mass and the second as the unit of time.

These fundamental units are (1) the ohm, the unit of electric resistance which has the value of 1,000,000,000 in terms of the centimetre and second; (2) the ampere, the unit of electric current which has the value of one-tenth (0.1) in terms of the centimetre, gramme, and second; (3) the volt, the unit of electromotive force which has the value 100,000,000 in terms of the centimetre, the gramme, and the second; (4) the watt, the unit of power which has the value 10,000,000 in terms of the centimetre, the gramme, and the secmd.

II. As a system of units representing the above and sufficiently near to them to be adopted for the purpose of electrical measurements and as a basis for legislation, the Conference recommends the adoption of the international ohm, the international ampere, and the international volt defined according to the following definitions.

III. The ohm is the first primary unit.

IV. The international ohm is defined as the resistance of a specified column of mercury.

V. The international ohm is the resistance offered to an unvarying electric current by a column of mercury at the temperature of melting ice, 14.4521 grammes in mass, of a constant cross sectional area and of a length of 106.300 centimetres.

To determine the resistance of a column of mercury in terms of the international ohm, the procedure to be followed shall be that set out in Specification I. attached to these resolutions.

VI. The ampere is the second primary unit.

VII. The international ampere is the unvarying electric current which, when passed through a solution of nitrate of silver in water, in accordance with the Specification II attached to these resolutions, deposits silver at the rate of 0.00111800 of a gramme per second.

VIII. The international volt is the electrical pressure which, when steadily applied to a conductor whose resistance is one international ohm, will produce a current of one international ampere.

IX. The international watt is the energy expended per second by an unvarying electric current of one international ampere under an electric pressure of one international volt.

SPECIFICATION I.

Specification relating to Mercury Standards of resistance.

The glass tubes used for mercury standards of resistance must be made of a glass such that the dimensions may remain as constant as possible. The tubes must be well annealed and straight. The bore must be as nearly as possible uniform and circular, and the area of cross section of the bore must be approximately one square millimetre. The mercury must have a resistance of approximately one ohm.

Each of the tubes must be accurately calibrated. The correction to be applied to allow for the area of the cross-section of the bore not being exactly the same at all parts of the tube must not exceed 5 parts in 10,000.

The mercury filling the tube must be considered as bounded by plane surfaces placed in contact with the ends of the tube.

The length of the axis of the tube, the mass of mercury the tube contains, and the electrical resistance of the mercury are to be determined at a temperature as near to 0°C . as possible. The measurements are to be corrected to 0°C .

For the purpose of the electrical measurements, end vessels carrying connections for the current and potential terminals are to be fitted on to the tube. These end vessels are to be spherical in shape of a diameter of approximately four centimetres, and should have cylindrical pieces attached to make connections with the tubes. The outside edge of each end of the tube is to be coincident with the inner surface of the corresponding spherical end vessel. The leads which make contact with the mercury are to be of thin platinum wire fused into glass. The point of entry of the current lead and the end of the tube are to be at opposite ends of a diameter of the bulb, the potential lead is to be midway between these two points. All the leads must be so thin that no error in the resistance is introduced through conduction of heat to the mercury. The filling of the tube with mercury for the purpose of the resistance measurements must be carried out under the same conditions as the filling for the determination of the mass.

The resistance which has to be added to the resistance of the tube to allow for the effect of the end vessels is to be calculated by the formula.

$$A = \frac{0.80}{1063\pi} \left(\frac{1}{r_1} + \frac{1}{r_2} \right) \text{ ohm.}$$

where r_1 and r_2 are the radii in millimetres of the end sections of the bore of the tube.

The mean of the calculated resistances of at least five tubes shall be taken to determine the value of the unit of resistance.

For the purpose of the comparison of resistances with a mercury tube the measurements shall be made with at least three separate fillings of the tube.

SPECIFICATION II.

Specification relating to the deposition of Silver.

The electrolyte shall consist of a solution of from 15 to 20 parts by weight of silver nitrate in 100 parts of distilled water. The solution must only be used once, and only for so long that no more than 30 per cent of the silver in the solution is deposited.

The anode shall be of silver, and the cathode of platinum. The current density at the anode shall not exceed $\frac{1}{2}$ ampere per square centimetre and at the cathode $\frac{1}{4}$ ampere per square centimetre.

Not less than 100 cubic centimetres of electrolyte shall be used in a voltameter.

Care must be taken that no particles which may become mechanically detached from the anode shall reach the cathode.

Before weighing, any traces of solution adhering to the cathode must be removed, and the cathode dried.

SCHEDULE C.

WESTON NORMAL CELL.

The Weston Normal Cell may be conveniently employed as a standard of electric pressure for the measurement both of E.M.F. and of current, and when set up in accordance with the following Specification, may be taken, provisionally,* as having, at a temperature of 20°C., an E.M.F. of 1.0184 volts.

SPECIFICATION RELATING TO THE WESTON NORMAL CELL.

The Weston Normal Cell is a voltaic cell which has a saturated aqueous solution of cadmium sulphate ($\text{CdSO}_4 \frac{8}{3} \text{H}_2\text{O}$) as its electrolyte.

The electrolyte must be neutral to Congo Red.

The positive electrode of the cell is mercury.

The negative electrode of the cell is cadmium amalgam consisting of 12.5 parts by weight of cadmium in 100 parts of amalgam.

The depolarizer, which is placed in contact with the positive electrode, is a paste made by mixing mercurous sulphate with powdered crystals of cadmium sulphate and a saturated aqueous solution of cadmium sulphate.

The different methods of preparing the mercurous sulphate paste are described in the notes.† One of the methods there specified must be carried out.

For setting up the cell, the H form is the most suitable. The leads passing through the glass to the electrodes must be of platinum wire, which must not be allowed to come into contact with the electrolyte. The amalgam is placed in one limb, the mercury in the other.

The depolarizer is placed above the mercury and a layer of cadmium sulphate crystals is introduced into each limb. The entire cell is filled with a saturated solution of cadmium sulphate and then hermetically sealed.

The following formula is recommended for the E.M.F. of the cell in terms of the temperature between the limits 0°C and 40°C.

$$E^t = E_{20} - 0.0000406 (t-20) - 0.00000095 (t-20)^2 + 0.00000001 (t-20)^3$$

SCHEDULE D.

1. The Conference recommends that the various governments interested establish a permanent international commission for electrical standards.

2. Pending the appointment of the permanent international commission the Conference recommends¹ that the president, Lord Rayleigh, nominate for appointment by the Conference a scientific committee of fifteen to advise as to the organization of the permanent commission, to formulate a plan for and to direct such work as may be necessary in connection with the maintenance of standards, fixing of values², inter-comparison of standards and to complete the work of the Conference³. Vacancies on the committee to be filled by co-optation.

* See duties of the Scientific Committee, Schedule D.

† Notes on methods pursued at various standardizing laboratories will be issued by the Scientific Committee or the Permanent Commission, as an Appendix to this Report.

¹ In accordance with the above, Lord Rayleigh has nominated the following committee, which has been approved by the Conference, viz.:—

Dr. Osuke Azano,	Prof. G. Lippman,
M. R. Benoit,	Prof. A. Rorti,
Dr. M. N. Egoroff,	Dr. E. R. Rosa.
Prof. Eric Gerard,	Dr. S. W. Stratton,
Dr. S. T. Glazebrook,	Mr. A. P. Trotter,
Dr. H. Haga,	Prof. E. Warburg,
D. L. Kusminsky,	Prof. Fr. Weber.
Prof. Lindeck,	

² This will include the reconsideration from time to time of the E. M. F. of the Weston Normal Cell.

³ With this object the committee are authorized to issue as an Appendix to the Report of the Conference notes detailing the methods which have been adopted in the standardizing laboratories of the various countries to realize the international ohm and the international ampere, and to set up the Weston Normal Cell.

SESSIONAL PAPER No. 13

3. The laboratories equipped with facilities for precise electrical measurements and investigations should be asked to co-operate with this committee and to carry out, if possible, such work as it may desire.

4. The committee should take the proper steps forthwith for establishing the permanent commission, and are empowered to arrange for the meeting of the next conference on electrical units and standards, and the time and place of such meeting should this action appear to them to be desirable.

5. The committee or the permanent international commission shall consider the question of enlarging the functions of the international commission on weights and measures with a view to determining if it is possible or desirable to combine future conferences on electrical units and standards with the international commission on weights and measures, in place of holding in the future conferences on electrical units and standards. At the same time it is the opinion of the conference that the permanent commission should be retained as a distinct body, which should meet at different places in succession.

ELectrical STANDARDS LABORATORY,
INLAND REVENUE DEPARTMENT,
OTTAWA, August 19, 1909.

W. J. GERALD, Esq., I.S.O.,
Deputy Minister.

Sir, As the delegate of the Canadian Government, I attended the International Congress of Applied Electricity held in September, 1908, at Marseilles, France.

The Congress opened on Monday, the 14th of September under the presidency of M. Maurice Levy, Inspector General of Roads and Bridges, and Professor of the College of France.

The work of the Congress was carried on under nine divisions or sections as follows --

First Section.—Comparison of French legislation on electricity with that of foreign countries and the consequences of new legislation on previous authorizations and concessions.

Second Section.—Construction and protection of aerial conductors and underground cables.

Third Section.—Technical and commercial exploitation. Comparison of the different methods of transporting electrical energy. The use of accumulators in electrical distributions. Supervision of the lines, security of the person and regulation.

Fourth Section.—Lighting and domestic applications. Processes of electric lighting. Specifications and photometry of electric lamps. Electricity as fuel.

Fifth Section.—Industrial applications of electricity for mining, traction and agriculture. Comparison of the different systems of traction. Electrification of steam railways. The social effect of the uses of electricity in the home.

Sixth Section.—Electro-chemistry and electro-metallurgy. The fixation of atmospheric nitrogen. The present state of electro-metallurgy. The electro-metallurgy of brass. The present state of electro-chemistry.

Seventh Section.—Telegraphy and telephony. Wireless telegraphy. Wireless telephony. The present state of submarine telephony. Application of currents of high frequency for the transmission of signals on industrial lines.

Eighth Section.—Teaching and measurements. Electro-technical schools. The education of the engineer and electrician. Instruments of measurement. Organization of an industrial laboratory.

Ninth Section.—Application of electricity to hygiene and medicine. Electrical processes for the sterilization of air and water. Electrical measuring instruments in radiotherapy. The destructive action of electricity on the tissues. The employment of Crookes tubes.

The range covered, as here outlined, is extremely large and embraces practically every branch of electrical engineering.

9-10 EDWARD VII., A. 1910

The countries represented at the congress were :—Austria, Belgium, Canada, France, Holland, Italy, Monaco, Roumania, Russia, Spain, Sweden, Switzerland and the United States of America. There were 1,400 members present at the Congress.

The deliberations of the Congress have just been published in three large volumes, the first two of which are taken up with 'Rapports Préliminaires,' consisting practically of papers prepared by various authorities on which the discussions at the sectional meetings were based. The third volume contains the actual discussions which took place before the sections. It is impossible to give any adequate idea of the information contained in these volumes, but they will undoubtedly form an excellent work of reference in future as to the condition of the electrical industry in 1908.

I remain, sir, your obedient servant,

ORMOND HIGMAN,

Chief Electrical Engineer.

APPENDIX A

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1909.

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.						Revenues.
		Sal.	Sal. Assistants	Rent	Traveling Expenses	Indem.	Total	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Belleville	Johnson, Wm. ... Slattery, T. ... Johnston, C. W. ... Gallagher, P. ... Kylie, Richard ... Howson, G. H. ...	4,778 15		372 50 1,088 40	362 56	6,601 61	3,036 30	
Hamilton	Frost, A. T. ... Marantette, A. ... Lachman, R. H. ... Wheatley, A. E. ... Robins, S. W. Clegg, Joseph....	6,541 83			1,595 75	80 15	8,234 94	10,325 35
Ottawa	Macdonald, J. A. ... Winsor, John ... Breen, J. Findlay, R. ... Hodgins, H. A. ... Church, G. C.	3,799 80	1,100 00		971 87	135 42	6,007 09	3,415 29
Toronto	Kelly, D. McConville, J. J. ... Wright, Robt. Milligan, R. J. ... Mundock, Jas. Smith, J. C. Cruikshank, J. L. Lyons, Archibald	6,062 28			2,222 36	156 33	8,440 97	11,129 71
Windsor	Hayward, W. J. Coughlin, D. Hughes, R. A. ... Thomas, J. S. Liddle, David. Butler, F. H.	5,299 00			1,629 80	219 24	7,489 00	8,904 15
Ontario.		26,790 63	1,100 00	372 50	7,548 18	962 90	36,773 61	36,811 00

9-10 EDWARD VII., A. 1910

APPENDIX A—Continued.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1909—Continued.

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.						Revenues.	
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Montreal . . .	Chalus, J. O.								
	Archambault, J. E.								
	Daoust, J. A.								
	Hébert, J. A. P.								
	Boudet, E.								
	Beaulac, J. H.	7,138 10	600 00	1,000 00	1,916 89	201 98	10,856 97	13,889 08	
	Hall, H. C.								
	Wilson, J. C.								
	Galipeau, J. B. N.								
	MacBeth, W.								
Quebec . . .	Roy, Chs. E.								
	LeBel, J. A. W.								
	Guay, Alphonse.								
	Petit, J. B.								
	Préfontaine, F. H.	6,995 84	595 00	300 00	2,011 62	363 35	10,265 81	4,996 30	
	Knowles, Chs.								
	Bourget, L. J.								
	Bugeaud, J. F.								
	Caldwell, A. B.								
	Gauvin, B.								
St. Hyacinthe.	Morin, J. P.								
	Tomlinson, W. M.	3,449 88	374 94		1,276 07	138 81	5,239 70	3,509 05	
	Thérien, J. F.								
	Dessert, Victor.								
Three Rivers.	Gravel, A. I.	1,699 92			108 30	67 43	1,875 65	288 10	
	Bolduc, E.								
	Quebec.	19,283 74	1,569 94	1,300 00	5,312 88	771 57	28,238 13	22,682 53	
St. John, N.B.	Barry, Jas.								
	Leblanc, F. X.	3,206 85			849 97	60 29	4,117 11	3,324 26	
	Bernier, J. A.								
	White, H. E.								
Cape Breton.	Laurence, G. C.	950 00		50 00	428 32	4 90	1,433 22	907 40	
Halifax.	Frame, A.								
	Waugh, R. J.	1,749 84	799 92	375 00	503 80	126 46	3,555 02	1,154 63	
	Sargent, F. H.								
Pictou.	Dustan, W. M.	1,799 92			185 71	81 94	2,067 57	568 48	
	Chisholm, J. J.								
	Nova Scotia.	4,499 76	799 92	425 00	1,117 83	213 30	7,055 81	2,630 51	
Charlottetown									
P.E.I.	Davy, E.	1,720 06			247 59	95 65	2,063 30	616 60	
	Hughes, Henry.								
Winnipeg, M.	Magness, R.								
	Mager, Jos. G.								
	Gilby, W. F.								
	McKay, R.	4,349 88			2,005 33	187 27	6,542 48	7,953 25	
	Spicer, Harry.								
	Thompson, J. C.								

WEIGHTS AND MEASURES

3

SESSIONAL PAPER No. 13

APPENDIX A—*Concluded.*STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1909—*Concluded.*

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.					Revenues.	
		Salary	Special Assistance	Rent.	Travelling Expenses.	Subsidy		
		£	£	£	£	£		
Calgary, Alta.	Costello, J. W.	1,849 96	5 00	3 00	1,313 49	111 96	3,283 41	2,592 15
McDonald, A. W.								
Nelson	Parker, Thos.	1,100 00			1,078 60	62 15	2,240 75	1,229 55
Vancouver....	Marshall, R.							
	Findley, H.							
	Shaw, John.	2,441 58	1,224 97	530 00	243 05	554 70	4,994 30	2,403 20
	Harris, W. H.							
	Dutton, A. H.							
British Columbia..		3,541 58	1,224 97	530 00	1,321 65	616 85	7,235 05	2,632 75
Dawson, Y. T.	Macdonald, J. F.	1,000 00			98 25	11 25	1,109 50	44 00

RECAPITULATION.

	EXPENDITURES.					Revenues.	
	Salary	Special Assistance	Rent.	Travelling Expenses.	Subsidy		
	£	£	£	£	£		
Ontario.	26,790 00	1,100 00	372 50	7,548 18	962 90	36,773 61	36,811 00
Quebec.	19,283 71	1,569 94	1,300 00	5,312 88	771 57	28,238 13	22,682 53
New Brunswick.	3,206 82			849 97	60 29	4,117 11	3,324 26
Nova Scotia.	4,499 76	799 92	425 00	1,117 83	213 30	7,055 81	2,630 51
Prince Edward Island.	1,720 06			247 59	95 65	2,063 30	616 60
Manitoba.	4,349 88			2,005 33	187 27	6,542 48	7,953 25
Alberta.	1,849 96	5 00	3 00	1,313 49	111 96	3,283 41	2,592 15
British Columbia.	3,541 58	1,224 97	530 00	1,321 65	616 85	7,235 05	2,632 75
Yukon.	1,000 00			98 25	11 25	1,109 50	44 00
Chief inspector.	1,125 00	199 45		503 95	66 69	1,889 09	
General contingencies.					3,586 26	3,586 26	
Metric system.					33 77	33 77	
Printing.					547 72	547 72	
Stationery.					471 62	471 62	
Lithographing.					672 85	672 85	
Provisional allowance.					425 66	425 66	
International Bureau of Weights and Measures.					210 30	210 30	
Grand totals.	67,366 86	4,899 28	2,630 50	20,319 12	9,039 91	104,255 67	80,287 05

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of Weights and Measures Inspected during the Fiscal Year ended March 31, each Division, for each Province,

INSPECTION DIVISIONS.	WEIGHTS.								MEASURES OF CAPACITY.							
	Dominion.				Troy and Decimal.		Mis-cellaneous.		Dominion.				Miscellaneous.			
	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.
Belleville.....	2,063	2,063	...	...	5	5	...	2,680	2,680	...	53	53	...	...	...	...
Hamilton.....	13,724	13,703	21	...	4	4	...	5,128	5,123	5	363	354	9	...	...	...
Ottawa.....	5,977	5,958	19	...	...	...	...	1,750	1,735	15	81	81	...	...	...	...
Toronto.....	9,565	9,552	13	...	...	...	...	17,300	17,300	...	2,870	2,870	...	...	...	...
Windsor.....	3,471	3,471	...	26	26	...	...	19,792	19,792	...	131	131	...	...	...	...
Ontario.....	34,800	34,747	53	26	26	...	9	9	...	46,650	46,630	20	3,498	3,489	9	...
Montreal.....	11,497	11,432	65	138	138	...	77	77	...	30,499	30,496	3	7,379	7,379	...	...
Quebec.....	7,860	7,687	173	...	...	...	863	861	2	8,090	8,066	24	138	138	...	...
St. Hyacinthe.....	3,348	3,348	...	...	...	...	...	...	...	4,454	4,451	3	142	142	...	...
Three Rivers.....	543	543	...	...	...	...	...	...	...	477	477	...	4	3	1	...
Quebec.....	23,248	23,010	238	138	138	...	940	938	2	43,520	43,490	30	7,663	7,662	1	...
St. John, N.B.....	3,096	3,095	1	...	...	...	4	4	...	6,293	6,292	1	2,279	2,279	...	...
Cape Breton.....	487	482	5	...	...	...	...	...	...	363	360	3	48	47	1	...
Halifax.....	1,362	1,362	...	...	...	...	16	16	...	693	693	...	233	233	...	...
Pictou.....	347	347	...	...	...	...	1	1	...	645	645	...	45	45	...	...
Nova Scotia.....	2,196	2,191	5	...	...	...	17	17	...	1,701	1,698	3	326	325	1	...
Charlottetown, P.E.I	646	646	...	20	20	...	...	...	...	178	178	...	42	42	...	...
Winnipeg, Man.....	3,053	3,051	2	40	40	...	...	...	...	6,007	6,007	...	419	418	1	...
Calgary, Alta.....	829	829	...	...	...	...	1	1	...	613	613	...	1	1	...	...
Nelson.....	520	520	...	...	...	...	...	...	...	305	305	...	4	4	...	...
Vancouver.....	1,511	1,511	...	...	...	...	19	19	...	39	39	...	9	9	...	...
British Columbia..	2,031	2,031	...	...	...	...	19	19	...	344	344	...	13	13	...	...
Dawson, Yukon	7	7	...	...	...	...	9	9	...	...	...	...	...	...	...	...
Grand totals.....	69,906	69,607	299	224	224	...	999	997	2	105,306	105,252	54	14,241	14,229	12	...

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

B

1909, showing the Total Number brought for Verification, Verified and Rejected for and for the whole Dominion.

MEASURES OF LENGTH.				BALANCES, &c.												
Brought for Verification.			Brought for Verification.	Equal Armed.			Steelyards.			Platform Scales, Weigh Bridges, &c.			Miscellaneous.			
Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
152	152	89	367	367	78	78	31	1,367	1,367	468	495	495	7	495	495	7
893	804	89	3,262	3,141	121	2,589	2,558	6,253	5,785	3,289	3,282	3,282	1	623	623	29
425	425		1,963	1,034	29	46	45	2,356	2,286	70	652	652				
1,336	1,336		1,969	1,933	36	503	477	3,193	3,077	116	7,613	7,586	27			
622	622		690	682	8	203	200	4,230	4,163	67	2,467	2,466	1			
3,428	3,339	89	7,351	7,157	194	3,419	3,358	17,399	16,678	721	14,516	14,452	64			
2,319	2,319		2,546	2,527	19	1,041	1,039	5,876	5,758	118	7,116	7,095	21			
995	950	45	1,273	1,261	12	279	264	2,391	2,334	57	419	413	6			
410	410	...	785	782	3	186	184	2,286	2,219	67	148	148				
1	1	...	84	84	2	2	2	205	203	2	12	11	1			
3,725	3,680	45	4,688	4,654	34	1,508	1,489	10,758	10,514	244	7,695	7,667	28			
88	88		657	656	1	32	32	1,763	1,756	7	774	774				
121	120	1	136	134	2	67	67	310	307	3	118	118				
26	26		317	317		51	51	678	673	5	194	194				
45	45		80	80		9	9	212	208	4	62	62				
192	191	1	533	531	2	127	127	1,200	1,188	12	374	374				
3	3		143	143		20	20	446	446		63	63				
318	318	...	543	540	3	105	98	3,579	3,454	125	5,377	5,372	5			
85	85		159	159		33	33	1,324	1,320	4	283	283				
114	114		95	95		46	46	539	539		171	171				
			349	349		138	138	1,334	1,334		1,229	1,229				
114	114	...	444	444		184	184	1,873	1,873		1,400	1,400				
						2	2	30	30		4	4				
7,953	7,818	135	14,518	14,284	234	5,430	5,343	38,372	37,259	1,113	30,486	30,389	97			

W. J. GERALD,
Deputy Minister.

RETURN showing the number of Dominion Weights and Lineal Measures of each
Fiscal Year ended

INSPECTION DIVISIONS.	DOMINION													
	Avoir													
	60 lbs.	50 lbs.	30 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville	1		16	6	58	128	172	407	455	238	283	126		
Hamilton	2,194		2	4	4	243	113	2,314	3,517	3,209	491	424	500	
Ottawa			1	8	81	80	212	378	506	759	734	723		
Toronto	24		345	6	937	925	715	2,339	1,780	571	511	469		
Windsor				10	2	75	129	342	749	711	334	321	299	
Ontario	2,219		2	376	26	1,394	1,375	3,755	7,390	6,661	2,393	2,273	2,117	
Montreal	40	239	2	3	81	43	548	618	842	2,236	2,104	1,230	1,115	1,005
Quebec	2	48	12	16	99	136	426	687	646	1,119	1,082	1,011	967	811
St. Hyacinthe			2	3	3	216	166	439	693	634	381	345	236	
Three Rivers				4	1	51	16	83	93	89	67	61	49	
Quebec	42	287	14	21	187	183	1,241	1,487	2,010	4,141	3,909	2,689	2,488	2,101
St. John, N.B.	8	20	1	5	12	24	143	180	379	742	664	308	235	192
Cape Breton					8		46	39	124	131	86	47	5	1
Halifax	35				2	10	36	76	147	393	308	121	79	68
Pictou						13	13	46	95	84	23	18	18	
Nova Scotia		35			10	10	95	128	317	619	478	191	102	87
Charlottetown, P.E.I.						17	35		75	204	143	52	36	30
Winnipeg, Man		14	2	4	22	25	79	179	199	742	622	191	171	177
Calgary, Alta.	60				2	5	5	36	27	193	160	63	61	61
Nelson					1	1	6	17	40	104	97	51	46	44
Vancouver.		50		4	5	18	68	75	461	375	110	84	81	
British Columbia.		50			5	6	21	85	115	565	472	161	130	125
Dawson, Yukon						1				3	3			
Grand totals	110	2,625	17	32	614	279	2,999	3,505	6,877	14,599	13,112	6,048	5,496	4,890

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

C

Denomination presented for Verification in each Inspection Division during the March 31, 1909.

WEIGHTS.

drams.

1 oz.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	6

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of
Year ended March 31,

INSPECTION DIVISIONS.	DOMINION												.Avoir		
	60 lbs.	50 lbs.	30 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.	
Belleville.....		1		16	6	58	128	172	407	455	238	283	126		
Hamilton.....	2,194		2	4	4	243	109	2,314	3,509	3,297	487	422	500		
Ottawa.....			1	7	78	76	206	373	506	759	734	723			
Toronto.....	24		345	6	935	924	715	2,336	1,777	570	510	468			
Windsor.....			10	2	75	129	342	749	711	334	321	299			
Ontario.....	2,219		2	376	25	1,389	1,366	3,749	7,374	6,656	2,388	2,270	2,116		
Montreal.....	40	239	2	3	81	41	545	613	834	2,226	2,092	1,218	1,108	1,000	
Quebec.....	2	48	12	16	98	136	420	666	627	1,084	1,053	990	949	796	
St. Hyacinthe.....				2	3	3	216	166	439	693	634	381	345	236	
Three Rivers.....				4	1	51	16	83	93	89	67	61	49		
Quebec.....	42	287	14	21	186	181	1,232	1,461	1,983	4,096	3,868	2,656	2,463	2,081	
St. John, N.B.	8	20	1	5	12	24	143	180	378	742	664	308	235	192	
Cape Breton.....				8		46	39	124	131	84	44	5	1		
Halifax.....	35			2	10	36	76	147	393	308	121	79	68		
Pictou.....					13	13	46	95	84	23	18	18			
Nova Scotia.....	35			10	10	95	128	317	619	476	188	102	87		
Charlottetown, P.E.I.						17	35	75	204	143	52	36	30		
Winnipeg, Man.	14	2	4	22	25	79	179	199	741	621	191	171	177		
Calgary, Alta.	60			2	5	5	36	27	193	160	63	61	61		
Nelson.....			1	1	6	17	40	164	97	51	46	44			
Vancouver.....	50		4	5	18	68	75	461	375	110	84	81			
British Columbia.	50			5	6	24	85	115	565	472	161	130	125		
Dawson, Yukon.....						1			3	3					
Grand totals	110	2,625	17	32	613	276	2,985	3,470	6,843	14,537	13,063	6,007	5,468	4,869	

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

C—Continued.

each Denomination, Verified in each Inspection Division during the Fiscal 1908—Continued.

WEIGHTS.							LINEAL MEASURES.							Miscellaneous Measures.								
1 oz.	dr.	dr.	dr.	dr.	dr.	Total Number.	Troy and Imperial Weights.	Miscellaneous Weights.	6 feet.	5 feet.	4 feet.	3 feet.	2 feet.	1 yard.	2 yards.	3 yards.	4 yards.	5 yards.	100 feet chains.	66 feet chains.	Tape of ribbon.	Total Number.
99	46	22	5	1	..	2,063	....	5	..	..	..	..	152	..	..	..	..	..	152	....	..	..
354	246	81	12	15	..	13,703	....	4	..	..	..	..	804	..	..	..	..	..	804	....	..	..
689	750	1,046	7	1	2	5,948	....	..	..	..	..	..	425	..	..	..	..	..	425	....	..	..
434	214	133	59	72	..	9,552	....	..	..	..	..	..	1,336	..	..	..	..	..	1,336	....	..	..
261	153	71	10	3	1	3,471	26	..	..	..	..	..	622	..	..	..	..	..	622	..	..	..
1,837	1,439	1,353	93	92	3	34,747	26	9	..	..	..	..	3,339	..	..	..	..	..	3,339	..	..	..
724	355	136	73	98	3	11,432	138	77	..	..	..	..	2,319	..	..	..	..	..	2,319	..	..	..
589	149	35	9	7	1	7,687	..	861	..	..	..	..	950	..	..	..	..	..	950	..	..	..
165	49	11	5	..	..	3,348	..	..	..	..	..	..	410	..	..	..	..	..	410	..	..	..
22	7	..	..	..	..	543	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..
1,500	561	182	87	105	3	23,010	138	938	..	..	..	..	3,680	..	..	..	..	..	3,680	..	..	..
119	40	17	4	2	1	3,095	..	4	..	..	..	..	88	..	..	..	..	..	88	..	..	..
63	18	5	1	..	..	482	..	..	..	..	..	..	120	..	..	..	..	..	120	..	..	..
17	11	5	2	2	..	1,362	..	16	..	..	..	..	26	..	..	..	..	..	26	..	..	..
80	29	10	3	2	..	347	..	1	..	..	..	..	45	..	..	..	..	..	45	..	..	..
26	16	9	3	..	..	2,191	..	17	..	..	..	..	191	..	..	..	..	..	191	..	..	..
173	160	125	75	91	2	3,051	40	..	..	..	..	..	318	..	..	..	..	..	318	..	..	..
60	50	43	3	..	..	829	..	1	..	..	..	..	85	..	..	..	..	..	85	..	..	..
39	34	26	12	2	..	520	..	..	..	..	..	..	114	..	..	..	..	..	114	..	..	..
66	51	35	26	2	..	1,511	..	19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
105	85	61	38	4	..	2,031	..	19	..	..	..	..	114	..	..	..	..	..	114	..	..	..
..	..	..	..	..	..	..	7	..	..	..	..	..	9	..	..	..	..	..	..	..	..	..
3,900	2,380	1,800	306	296	10	69,607	224	997	..	..	..	..	7,818	..	..	..	..	..	7,818	..	..	..

W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of each
March 31,

INSPECTION DIVISIONS.	DOMINION												Avoir	
	60 lbs.	50 lbs.	30 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville														
Hamilton								4			2	4	2	
Ottawa					1	3	4	6	5					
Toronto						2	1		3		3	1	1	1
Windsor														
Ontario					1	5	9	6	16		5	5	3	1
Montreal						2	3	5	8	10	12	12	7	5
Quebec						1	6	21	19	35	29	21	18	15
St. Hyacinthe														
Three Rivers														
Quebec					1	2	9	26	27	45	41	33	25	20
St. John, N. B.										1				
Cape Breton												2	3	
Halifax														
Pictou														
Nova Scotia												2	3	
Charlottetown, P. E. I.														
Winnipeg, Man.											1	1		
Calgary, Alta.														
Nelson														
Vancouver														
British Columbia														
Dawson, Yukon														
Grand totals.					1	3	14	35	34	62	49	41	28	21

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

C—Concluded.

Denomination, Rejected in each Inspection Division during the Fiscal Year ended 1909—Concluded.

WEIGHTS.

1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	$\frac{1}{2}$ dr.	Total Number.	Troy and Decimal Weights.	Miscellaneous Weights.	LINEAL MEASURES.	Miscellaneous Measures.
1	1					21				
						19				
1						13				
1	1					33				
1						65				
						173				
9						23				
						1				
						3				
						5				
10	1					299		2	135	

W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII, A. 1910

APPENDIX

RETURN showing the number of Dominion Measures of Capacity, Balances and Division, during the Fiscal Year

MEASURES OF CAPACITY.

DOMESTIC.

DOMESTIC DIVISIONS.

	Bushel.	Barrel.	Pck.	Gallon.	Gallon.	Quart.	Pint.	Pint.	Gill.	Gill.	Total Number.	Miscellaneous.
Quebec	12	12	67	455	423	727	54	36	1	1	2,188	13
Montreal	65	184	22	1,001	1,482	1,024	295	11			5,128	363
Quebec	11	8	67	311	522	122	217	96	2	1	1,750	81
Toronto	31	45	23	2,683	2,753	4,047	1,771	976	23		17,300	2,850
Montreal	613	1,010	1,076	2,372	2,795	3,242	5,381	13			19,792	131
Ontario	658	1,687	2,457	6,551	7,444	13,384	12,976	1,406	36	1	46,650	3,495
Montreal	1,721	1,511	3,914	4,415	8,342	8,127	2,745	341	2	2	30,499	7,379
Montreal	1,281	397	1,476	1,876	1,876	1,508	679	114			8,090	138
Montreal	115	167	723	1,071	1,194	709	383	92			4,454	142
Toronto	17	21	80	111	167	16	37	14	....		477	4
Toronto	1	1,475	2,046	6,216	7,473	11,538	10,434	3,774	561	2	43,529	7,663
New Brunswick	435	361	1,192	1,785	1,443	1,127	232	8	1	1	6,293	2,279
Halifax	2	....	44	191	144	92					363	48
Halifax	1	5	6	128	235	175	119	21	2	1	693	233
Halifax	2	1	31	176	228	145	2	....			645	45
Nova Scotia	1	9	7	263	802	567	286	23	2	1	1,761	326
Charlottetown, P.E.I.	1	....	1	6	22	126	24				178	42
Quebec, Que.	104	36	2	1,123	1,177	1,976	1,521	34	2		6,097	419
Quebec, Que.	6	2	....	157	225	162	5	2	....		613	1
Quebec, Que.	2	....	2	66	100	52	42	4	....		125	4
Quebec, Que.	2	....	2	38	52	38	1	....			39	9
British Columbia	2	6	1	100	126	42	5	....			344	13
Quebec, Que.	....	....	....	....	....	....	....	....	....	....	....	....
Quebec, Que.	770	3,644	4,875	15,579	19,878	29,262	26,208	5,470	866	5	195,176	14,241

INLAND REVENUE DEPARTMENT.

OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

D

Weighting Machines of each Description presented for Verification to the Inspector General the 1st March, 1902.

DESCRIPTION

No. and Under.	Weights.		Scales.		Weights.		Scales.		Weights.		Scales.	
	6 lbs. to 50 lbs.	51 lbs. and upwards.	100 lbs. and upwards.	100 lbs. to 1 ton.	1,000 lbs. to 1 ton.	1,000 lbs. and upwards.	1,000 lbs. and upwards.	1,000 lbs. to 4,000 lbs.	4,000 lbs. to 6,000 lbs.	6,000 lbs. and upwards.	6,000 lbs. and upwards.	10,000 lbs. and upwards.
10	1	74	1	318	3,176	125	2,257	71	308	1	1	1
11	1	16	1	1,151	1,151	1	1	1	1	1	1	1
12	1	476	15	1,151	1,151	1	1	1	1	1	1	1
13	1	16	1	1,151	1,151	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1
31	112	20	1	127	20	1	1	17	19	1	1	1
32	1	1	1	1	1	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1	1	1	1	1	1
37	1	1	1	1	1	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1	1	1	1	1	1
39	1	1	1	1	1	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1	1	1	1
42	1	1	1	1	1	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1	1	1	1	1	1
44	1	1	1	1	1	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1	1	1	1	1	1
47	1	1	1	1	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1	1	1	1	1
51	1	1	1	1	1	1	1	1	1	1	1	1
52	1	1	1	1	1	1	1	1	1	1	1	1
53	1	1	1	1	1	1	1	1	1	1	1	1
54	1	1	1	1	1	1	1	1	1	1	1	1
55	1	1	1	1	1	1	1	1	1	1	1	1
56	1	1	1	1	1	1	1	1	1	1	1	1
57	1	1	1	1	1	1	1	1	1	1	1	1
58	1	1	1	1	1	1	1	1	1	1	1	1
59	1	1	1	1	1	1	1	1	1	1	1	1
60	1	1	1	1	1	1	1	1	1	1	1	1
61	1	1	1	1	1	1	1	1	1	1	1	1
62	1	1	1	1	1	1	1	1	1	1	1	1
63	1	1	1	1	1	1	1	1	1	1	1	1
64	1	1	1	1	1	1	1	1	1	1	1	1
65	1	1	1	1	1	1	1	1	1	1	1	1
66	1	1	1	1	1	1	1	1	1	1	1	1
67	1	1	1	1	1	1	1	1	1	1	1	1
68	1	1	1	1	1	1	1	1	1	1	1	1
69	1	1	1	1	1	1	1	1	1	1	1	1
70	1	1	1	1	1	1	1	1	1	1	1	1
71	1	1	1	1	1	1	1	1	1	1	1	1
72	1	1	1	1	1	1	1	1	1	1	1	1
73	1	1	1	1	1	1	1	1	1	1	1	1
74	1	1	1	1	1	1	1	1	1	1	1	1
75	1	1	1	1	1	1	1	1	1	1	1	1
76	1	1	1	1	1	1	1	1	1	1	1	1
77	1	1	1	1	1	1	1	1	1	1	1	1
78	1	1	1	1	1	1	1	1	1	1	1	1
79	1	1	1	1	1	1	1	1	1	1	1	1
80	1	1	1	1	1	1	1	1	1	1	1	1
81	1	1	1	1	1	1	1	1	1	1	1	1
82	1	1	1	1	1	1	1	1	1	1	1	1
83	1	1	1	1	1	1	1	1	1	1	1	1
84	1	1	1	1	1	1	1	1	1	1	1	1
85	1	1	1	1	1	1	1	1	1	1	1	1
86	1	1	1	1	1	1	1	1	1	1	1	1
87	1	1	1	1	1	1	1	1	1	1	1	1
88	1	1	1	1	1	1	1	1	1	1	1	1
89	1	1	1	1	1	1	1	1	1	1	1	1
90	1	1	1	1</td								

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN showing the number of Dominion Measures of Capacity, Balances and
during the Fiscal Year

MEASURES OF CAPACITY.

Dominion.

INSPECTION DIVISIONS.

	Bushel.	$\frac{1}{2}$ Bushel.	Peck.	Gallon.	$\frac{1}{2}$ Gallon.	Quart.	Pint.	$\frac{1}{2}$ Pint.	Gill.	$\frac{1}{2}$ Gill.	Total Number.	Miscellaneous.	
Belleville.....	12	196	307	455	423	727	503	56	...	1	2,680	53	
Hamilton.....		65	184	819	999	1,480	1,300	265	11	...	5,123	354	
Ottawa.....	1	6	62	306	519	526	217	96	2	...	1,735	81	
Toronto.....	32	408	823	2,663	2,753	4,047	5,575	976	23	...	17,300	2,870	
Windsor.....		613	1,010	1,076	2,302	2,795	6,602	5,381	13	...	19,792	131	
Ontario.....		658	1,685	2,452	6,545	7,489	13,382	12,976	1,406	36	1	46,630	3,489
Montreal			1,062	1,550	3,914	4,414	8,341	8,127	2,745	341	2	30,496	7,379
Quebec.....	1	281	307	1,492	1,870	1,889	1,504	608	114	...	8,066	138	
St. Hyacinthe.....		114	167	721	1,071	1,194	709	383	92	...	4,451	142	
Three Rivers.....		17	21	80	111	107	90	37	14	...	477	3	
Quebec.....	1	1,474	2,045	6,207	7,466	11,531	10,430	3,773	561	2	43,490	7,662	
St. John, N. B.....		435	361	1,192	1,785	1,442	836	232	8	1	6,292	2,279	
Cape Breton		2	.....	44	191	102	21	.....	...	1	360	47
Halifax.....	1	5	6	128	235	175	119	21	2	1	693	233	
Pictou		2	1	91	176	228	145	2	.....	...	645	45
Nova Scotia.....	1	9	7	263	602	505	285	23	2	1	1,698	325	
Charlottetown, P.E.I.....				6	22	126	24	.....	...	...	178	42
Winnipeg, Man.....	104	36	2	1,125	1,177	1,976	1,551	34	2	...	6,007	418	
Calgary, Alta	6	2	.....	157	225	162	59	2	.....	...	613	1
Nelson			2	69	100	88	42	4	.....	...	305	4
Vancouver.....					38	.....	1	.....	...	...	39	9
British Columbia.....			2	69	100	126	42	5	.....	...	344	13
Dawson, Yukon.....						...	...	...	...	...	...	...
Grand totals	770	3,641	4,869	15,564	18,866	29,250	26,203	5,475	609	5	105,252	14,229	

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

D—Continued.

Weighing Machines of each Denomination, Verified in each Inspection Division, ended March 31, 1909—Continued.

BALANCES.

With equal arms.			Steelyards with divided arms.			Weigh Bridges or Platform Scales.			Machinery					
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	500 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.		
147 220				74	3	1	318	55	395	159	71	339	495	
1,416 1,725			1	2,529	27	2	3,078	118	2,027	236	68	258	3,282	
861 172				21	24		673	114	1,317	36	43	103	623	
71 1,221				470	15	5	1,116	176	985	311	97	418	7,586	
324 358				185	11	4	573	73	2,493	241	79	704	2,466	
3,460 3,696		1		3,250	53	38	8	5,758	540	7,217	983	358	1,822	14,452
869 1,657				1 1,004	23	3	9	2,227	995	1,893	148	150	345	7,095
245 953				63 263	1			739	517	32	24	57		413
227 493		59		3 182	2			817	446	745	30	63	118	148
12 72				2				83	41	58	6	6	9	11
1,353 3,175		59	67	1,451	26	3	9	4,092	2,221	3,213	216	243	529	7,667
178 477		1		31	1			706	310	505	40	26	109	774
58 76				41	22			1 151	24	51	40	41		118
94 221		1	1	51				366	67	150	16	16	58	194
30 50				9				88	38	16	8	17	21	62
182 347		1	1	104	22			1 605	129	237	24	73	120	374
31 112				20				127	63	212	8	17	19	63
198 338		4		96	2			1,045	25	895	243	604	642	5,372
100 59				30	2	1		386	35	281	45	221	352	283
49 46				24		22		226	18	208	14	9	70	171
171 177		1		88	20	29	1	604	53	544	59	13	61	1,229
220 223		1		112	20	51	1	824	71	752	73	22	131	1,400
					2			14	1	11	4			4
5,722 8,427		67	68	5,103	126	95	19	13,617	3,395	13,323	1,636	1,564	3,724	30,389

W. J. GERALD,
Deputy Minister,

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN showing the number of Dominion Measures of Capacity, Balances and Weigh
Fiscal Year ended

INSPECTION DIVISIONS	DOMINION										TOTAL NUMBER.	MISCELLANEOUS.
	Bushel.	$\frac{1}{2}$ Bushel.	Peck.	Gallon.	$\frac{1}{2}$ Gallon.	Quart.	Pint.	$\frac{1}{2}$ Pint.	Gill.	$\frac{1}{2}$ Gill.		
Belleville												9
Hamilton											5	
Ottawa	2	5	5	3	2						15	
Toronto												
Windsor												
Ontario	2	5	6	5	2						20	9
Montreal			1	1	1						3	
Quebec			7	6	6	4	1				24	
St. Hyacinthe	1	2									3	
Three Rivers											1	
Quebec	1	1	9	7	7	4	1				30	1
St. John, N. B.						1					1	
Cape Breton						2	1				3	1
Halifax												
Pictou												
Nova Scotia						2	1				3	1
Charlottetown, P.E.I.												
Winnipeg, Man.												1
Calgary, Alberta												
Nelson												
Vancouver												
British Columbia												
Dawson, Yukon												
Grand totals	3	6	15	12	12	5	1				54	12

SESSIONAL PAPER No. 13

D—*Concluded.*

ing Machines of each Denomination, Rejected, in each Inspection Division, during the March 31, 1908.

BALANCES.

		With equal arms.		Scales with divided arms.		Wooden, Brass, or Plat. on Scales										
		6 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	6 lbs. and under.	6 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	6 lbs. and under.	6 lbs. to 100 lbs.	101 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Mixed Balances
7	111			31						15	7	220	41	17	5	7
20	9			1						27	9	16	3	2	7	12
6	30			26						35	4	49	12	5	11	27
3	5			3						11	2	29	3	1	21	1
36	158			61						171	22	314	59	31	124	64
6	13			2	...	2				12	15	41	7	11	17	21
3	6	2	1	1	1	1				7	22	19	1	8	6	6
	3			2						15	18	18	2	10	6	1
										1		1				
9	22	2	1	19						44	59	79	10	21	31	25
	1									4						3
	2									2	1	...	1	1	2	4
	2									2	2		1	1	6	
2	1			7						31		45	3	11	35	5
														2	2	
47	184	2	1	87						252	83	438	73	66	201	97

W. J. GERALD,
Deputy Minister.

SESSIONAL PAPER No. 13

APPENDIX E—*Continued.*

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1909.

Provinces.	Inspectors and Assistants.	EXPENDITURES.					Revenues.
		Salaries	Allowances	Rent	Travelling Expenses	Sundries	
Charlottetown, P.E.I.	Bell, J. H.	450 00			10 80	460 80	94 00
Winnipeg, Man.	Macdonald, R. Mackay, J. G.	1,699 92 900 00		54 05	41 55	2,095 52	1,688 00
National New Westminster Victoria, B.C.	Stevens, J. M. Wolffenden, W. M. Trotter, W. A. Jones, R.	100 00 158 27 533 10 50 00			71 72 7 35 46 40 0 27	171 72 165 62 616 00 10 00	45 25 183 50 2,003 50 753 25
	British Columbia...	558 27 533 10	.....	46 40	145 57	1,283 34	2,985 50

RECAPITULATION

	EXPENDITURES.					Revenues.	
	Salaries.	Allowances	Rent	Travelling Expenses	Sundries.		
Ontario	15,649 28	109 45	84 25	608 10	637 08	17,849 14	29,134 50
Quebec	6,949 80	—	390 00	45 25	56 85	6,841 90	13,721 71
New Brunswick	1,200 00	—	—	163 65	5 87	1,369 52	575 75
Nova Scotia	1,099 92	690 00	375 00	310 23	108 25	2,493 44	404 75
Prince Edward Island.	470 00	—	—		10 80	460 80	94 00
Manitoba	1,099 92	690 00	—	54 05	41 55	2,095 52	1,688 00
British Columbia....	118 27	533 10	—	46 40	145 57	1,283 34	2,985 50
Chief Inspector	83 30	—	—	143 55	0 27	227 12	—
General contingencies.		—	—		755 91	755 91	—
Printing.	—	—	—	—	1,612 38	1,612 38	—
Stationery.	—	—	—	—	476 79	476 79	—
Letter printing.	—	—	—	—	49 50	49 50	—
Grand totals.	26,181 53	2,142 53	1,619 25	1,371 23	4,200 82	35,515 36	48,604 21

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.				SULPHUR PER 100 Allowance.—		
	Highest	Lowest.	Average,	No. of times below standard.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.		No. of Test.	Grains.	Grains.
Barrie —							
April.			19.20	0	1		
May.			18.80	0	1		
June.			18.70	0	1		
July.			18.80	0	1		
August.			16.70	0	1		
September.			17.30	0	1		
October.			17.10	0	1		
November.			18.80	0	1		
December.			18.90	0	1		
January.			18.70	0	1		
February.			16.70	0	1		
March			16.50	0	1		
				0	12		
Belleville —							
April.	19.61	18.57	19.09	0	2		
May.	18.96	18.80	18.88	0	2		
June.	20.57	25.00	20.28	0	2		
July.	19.00	15.25	17.12	1	2		
August.	19.84	19.73	19.78	0	2		
September.			19.43	0	1		
October.	19.04	18.24	18.64	0	2		
November.	20.08	19.43	19.75	0	2		
December.	20.79	18.37	19.94	0	3		
January.	20.56	17.64	19.10	0	2		
February.			19.46	0	1		
March.	21.00	19.62	20.31	0	2		
				1	23		
Deseronto —							
April.			18.09	0	1		
May.			20.70	0	1		
June.			20.09	0	1		
July.			22.20	0	1		
August.			20.10	0	1		
September.			22.30	0	1		
October.							
November.			21.50	0	1		
December.			20.30	0	1		
January.			22.30	0	1		
February.			18.80	0	1		
March.			23.00	0	1		
				0	11		

SESSIONAL PAPER No. 13

F.

Inspected during the year ended March 31, 1909.

CUBIC FEET. 35 Grains.	AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.			SULPHURIC ACID. Hydrogen.					
	Highest.	Lowest.	Average.						
No. of test	Grains.	Grains.	Grains.	Times in excess of allowance.	No. of Test	No. of times ab- sent.	No. of times pre- sent.	No. of Test	REMARKS.
1	1	1	1	1	1	0	0	1	
2	1	1	1	1	1	0	0	1	
3	1	1	1	1	1	0	0	1	
4	1	1	1	1	1	0	0	1	
5	1	1	1	1	1	0	0	1	
6	1	1	1	1	1	0	0	1	
7	1	1	1	1	1	0	0	1	
8	1	1	1	1	1	0	0	1	
9	1	1	1	1	1	0	0	1	
10	1	1	1	1	1	0	0	1	
11	1	1	1	1	1	0	0	1	
12	1	1	1	1	1	0	0	1	
13	1	1	1	1	1	0	0	1	
14	1	1	1	1	1	0	0	1	
15	1	1	1	1	1	0	0	1	
16	1	1	1	1	1	0	0	1	
17	1	1	1	1	1	0	0	1	
18	1	1	1	1	1	0	0	1	
19	1	1	1	1	1	0	0	1	
20	1	1	1	1	1	0	0	1	
21	1	1	1	1	1	0	0	1	
22	1	1	1	1	1	0	0	1	
23	1	1	1	1	1	0	0	1	
24	1	1	1	1	1	0	0	1	
25	1	1	1	1	1	0	0	1	
26	1	1	1	1	1	0	0	1	
27	1	1	1	1	1	0	0	1	
28	1	1	1	1	1	0	0	1	
29	1	1	1	1	1	0	0	1	
30	1	1	1	1	1	0	0	1	
31	1	1	1	1	1	0	0	1	
32	1	1	1	1	1	0	0	1	
33	1	1	1	1	1	0	0	1	
34	1	1	1	1	1	0	0	1	
35	1	1	1	1	1	0	0	1	
36	1	1	1	1	1	0	0	1	
37	1	1	1	1	1	0	0	1	
38	1	1	1	1	1	0	0	1	
39	1	1	1	1	1	0	0	1	
40	1	1	1	1	1	0	0	1	
41	1	1	1	1	1	0	0	1	
42	1	1	1	1	1	0	0	1	
43	1	1	1	1	1	0	0	1	
44	1	1	1	1	1	0	0	1	
45	1	1	1	1	1	0	0	1	
46	1	1	1	1	1	0	0	1	
47	1	1	1	1	1	0	0	1	
48	1	1	1	1	1	0	0	1	
49	1	1	1	1	1	0	0	1	
50	1	1	1	1	1	0	0	1	
51	1	1	1	1	1	0	0	1	
52	1	1	1	1	1	0	0	1	
53	1	1	1	1	1	0	0	1	
54	1	1	1	1	1	0	0	1	
55	1	1	1	1	1	0	0	1	
56	1	1	1	1	1	0	0	1	
57	1	1	1	1	1	0	0	1	
58	1	1	1	1	1	0	0	1	
59	1	1	1	1	1	0	0	1	
60	1	1	1	1	1	0	0	1	
61	1	1	1	1	1	0	0	1	
62	1	1	1	1	1	0	0	1	
63	1	1	1	1	1	0	0	1	
64	1	1	1	1	1	0	0	1	
65	1	1	1	1	1	0	0	1	
66	1	1	1	1	1	0	0	1	
67	1	1	1	1	1	0	0	1	
68	1	1	1	1	1	0	0	1	
69	1	1	1	1	1	0	0	1	
70	1	1	1	1	1	0	0	1	
71	1	1	1	1	1	0	0	1	
72	1	1	1	1	1	0	0	1	
73	1	1	1	1	1	0	0	1	
74	1	1	1	1	1	0	0	1	
75	1	1	1	1	1	0	0	1	
76	1	1	1	1	1	0	0	1	
77	1	1	1	1	1	0	0	1	
78	1	1	1	1	1	0	0	1	
79	1	1	1	1	1	0	0	1	
80	1	1	1	1	1	0	0	1	
81	1	1	1	1	1	0	0	1	
82	1	1	1	1	1	0	0	1	
83	1	1	1	1	1	0	0	1	
84	1	1	1	1	1	0	0	1	
85	1	1	1	1	1	0	0	1	
86	1	1	1	1	1	0	0	1	
87	1	1	1	1	1	0	0	1	
88	1	1	1	1	1	0	0	1	
89	1	1	1	1	1	0	0	1	
90	1	1	1	1	1	0	0	1	
91	1	1	1	1	1	0	0	1	
92	1	1	1	1	1	0	0	1	
93	1	1	1	1	1	0	0	1	
94	1	1	1	1	1	0	0	1	
95	1	1	1	1	1	0	0	1	
96	1	1	1	1	1	0	0	1	
97	1	1	1	1	1	0	0	1	
98	1	1	1	1	1	0	0	1	
99	1	1	1	1	1	0	0	1	
100	1	1	1	1	1	0	0	1	
101	1	1	1	1	1	0	0	1	
102	1	1	1	1	1	0	0	1	
103	1	1	1	1	1	0	0	1	
104	1	1	1	1	1	0	0	1	
105	1	1	1	1	1	0	0	1	
106	1	1	1	1	1	0	0	1	
107	1	1	1	1	1	0	0	1	
108	1	1	1	1	1	0	0	1	
109	1	1	1	1	1	0	0	1	
110	1	1	1	1	1	0	0	1	
111	1	1	1	1	1	0	0	1	
112	1	1	1	1	1	0	0	1	
113	1	1	1	1	1	0	0	1	
114	1	1	1	1	1	0	0	1	
115	1								

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Berlin—								
April			18.47	0	1			
May			17.77	0	1			
June			17.14	0	1			
July			16.48	0	1			
August			17.04	0	1			
September			17.96	0	1			
October			17.60	0	1			
November			17.28	0	1			
December			16.97	0	1			
January			16.55	0	1			
February			16.54	0	1			
March			16.90	0	1			
				0	12			
Brockville—								
April	20.82	20.64	20.73	0	2			
May	20.70	20.56	20.63	0	2			
June	20.76	20.62	20.69	0	2			
July	20.84	20.43	20.63	0	2			
August	21.00	20.60	20.80	0	2			
September			18.31	0	1			
October			20.32	0	1			
November	20.10	19.90	20.00	0	2			
December			20.10	0	1			
January	20.10	20.00	20.50	0	2			
February	20.10	19.90	20.00	0	2			
March	21.10	19.00	20.00	0	4			
				0	23			
Cobourg—								
April			17.26	0	1			
May			17.55	0	1			
June			17.76	0	1			
July			18.24	0	1			
August			17.72	0	1			
September			17.34	0	1			
October			17.15	0	1			
November			17.23	0	1			
December			17.38	0	1			
January			17.47	0	1			
February			18.02	0	1			
March			17.75	0	1			
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Port Hope—								
April	18.74	0	1					
May	19.68	0	1					
June	20.28	0	1					
July	19.46	0	1					
August	18.86	0	1					
September	19.89	0	1					
October	19.50	0	1					
November	18.75	0	1					
December	18.64	0	1					
January	18.62	0	1					
February	19.89	0	1					
March	18.13	0	1					
				0	12			
Cornwall—								
April	18.30	0	1					
May	18.10	0	1					
June	18.05	0	1					
July	18.10	0	1					
August	18.05	0	1					
September	18.05	0	1					
October	18.15	0	1					
November	18.15	0	1					
December	18.10	0	1					
January	18.30	0	1					
February	18.20	0	1					
March	18.00	0	1					
				0	12			
Guelph								
April	18.57	0	1					
May	18.07	0	1					
June	17.24	0	1					
July	18.56	0	1					
August	18.06	0	1					
September	17.58	0	1					
October	17.93	0	1					
November	17.15	0	1					
December	17.45	0	1					
January	18.19	0	1					
February	18.22	0	1					
March	18.16	0	1					
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909.

Cubic FEET. 35 Grains.	AMMONIA PER 100 CUB. FEET.			SULPHURIC HYDROGEN.	REMARKS.			
	Allowance—4 Grains.							
No. of Tests.	Highest. Grains.	Lowest. Grains.	Average. Grains.	Times in excess of allowance.	No. of Tests.	No. of times absent.	No. of times present.	No. of Tests.
24	0	0	0	0	24	0	0	24
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
1	0	0	0	0	1	0	1	1
12	0	0	0	0	12	0	0	12
12	0	0	0	0	12	0	0	12

RETURN of the Illuminating Power and Purity of Gas

SESSIONAL PAPER No. 13

F—Continued.

Inspection during the year ended March 31, 1908.

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909.

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest. Lowest. Averages.			No. of times be- low standard.	No. of Tests.	Highest. Lowest. Average		
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Provincial Natural Gas Co.— Niagara Falls and Bridgeburg								
April	17.63	17.55	17.65	0	1			
May	17.55	17.45	17.46	0	1			
June	17.65	17.45	17.46	0	1			
July	17.95	17.45	17.46	0	1			
August	17.63	17.45	17.46	0	1			
September	17.68	17.45	17.46	0	1			
October	17.45	17.37	17.41	0	1			
November	17.46	17.37	17.41	0	1			
December	17.37	17.37	17.37	0	1			
January	17.47	17.37	17.41	0	1			
February	17.73	17.37	17.41	0	1			
March	16.70	17.37	17.41	0	1			
St. Catharines Gas Co.—								
April	17.63	17.55	17.65	0	1			
May	17.55	17.45	17.46	0	1			
June	17.65	17.45	17.46	0	1			
July	17.95	17.45	17.46	0	1			
August	17.63	17.45	17.46	0	1			
September	17.68	17.45	17.46	0	1			
October	17.45	17.37	17.41	0	1			
November	17.46	17.37	17.41	0	1			
December	17.37	17.37	17.37	0	1			
January	17.47	17.37	17.41	0	1			
February	17.73	17.37	17.41	0	1			
March	16.70	17.37	17.41	0	1			
Dominion Natural Gas Co.— Galt.						0	12	
April	17.63	17.55	17.65	0	1			
May	17.55	17.45	17.46	0	1			
June	17.65	17.45	17.46	0	1			
July	17.95	17.45	17.46	0	1			
August	17.63	17.45	17.46	0	1			
September	17.68	17.45	17.46	0	1			
October	17.45	17.37	17.41	0	1			
November	17.46	17.37	17.41	0	1			
December	17.37	17.37	17.37	0	1			
January	17.47	17.37	17.41	0	1			
February	17.73	17.37	17.41	0	1			
March	16.70	17.37	17.41	0	1			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.				No. of Tests.	SULPHUR PER 100 Allowance —			
	Highest.	Lowest.	Average.	No. of times be- low standard.		Highest	Lowest.	Average	
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.	
United Natural Gas—									
April									
May									
June									
July									
August									
September									
October									
November									
December									
January									
February									
March									
Ontario Pipe Line—									
April									
May									
June									
July									
August									
September									
October									
November									
December									
January									
February									
March									
Kingston—									
April	20.70	19.81	20.25	0	2				
May	20.61	19.46	20.03	0	2				
June	20.00	19.08	19.54	0	2				
July	19.46	19.11	19.28	0	2				
August	18.90	16.70	17.80	0	2				
September			19.60	0	1				
October			19.50	0	1				
November	20.00	19.80	19.90	0	2				
December			20.10	0	1				
January	20.10	19.50	19.80	0	2				
February	20.00	19.60	19.80	0	2				
March	20.00	19.00	19.60	0	4				
				0	23				

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909.

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909—Continued.

CUBIC FEET. 35 Grains.	AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.			SULPHURETTED HYDROGEN.			REMARKS.	
	No. of Tests.			Times in excess of allowance.	No. of Tests.			
	Highest.	Lowest.	Average		No. of Tests.	No. of times pre- sent.		
Grains.	Grains.	Grains.						
11	11	11	11	1	1	0	1	
12	12	12	12	1	1	0	1	
13	13	13	13	1	1	0	1	
14	14	14	14	1	1	0	1	
15	15	15	15	1	1	0	1	
16	16	16	16	1	1	0	1	
17	17	17	17	1	1	0	1	
18	18	18	18	1	1	0	1	
19	19	19	19	1	1	0	1	
20	20	20	20	1	1	0	1	
21	21	21	21	1	1	0	1	
22	22	22	22	1	1	0	1	
23	23	23	23	1	1	0	1	
24	24	24	24	1	1	0	1	
25	25	25	25	1	1	0	1	
26	26	26	26	1	1	0	1	
27	27	27	27	1	1	0	1	
28	28	28	28	1	1	0	1	
29	29	29	29	1	1	0	1	
30	30	30	30	1	1	0	1	
31	31	31	31	1	1	0	1	
32	32	32	32	1	1	0	1	
33	33	33	33	1	1	0	1	
34	34	34	34	1	1	0	1	
35	35	35	35	1	1	0	1	
36	36	36	36	1	1	0	1	
37	37	37	37	1	1	0	1	
38	38	38	38	1	1	0	1	
39	39	39	39	1	1	0	1	
40	40	40	40	1	1	0	1	
41	41	41	41	1	1	0	1	
42	42	42	42	1	1	0	1	
43	43	43	43	1	1	0	1	
44	44	44	44	1	1	0	1	
45	45	45	45	1	1	0	1	
46	46	46	46	1	1	0	1	
47	47	47	47	1	1	0	1	
48	48	48	48	1	1	0	1	
49	49	49	49	1	1	0	1	
50	50	50	50	1	1	0	1	
51	51	51	51	1	1	0	1	
52	52	52	52	1	1	0	1	
53	53	53	53	1	1	0	1	
54	54	54	54	1	1	0	1	
55	55	55	55	1	1	0	1	
56	56	56	56	1	1	0	1	
57	57	57	57	1	1	0	1	
58	58	58	58	1	1	0	1	
59	59	59	59	1	1	0	1	
60	60	60	60	1	1	0	1	
61	61	61	61	1	1	0	1	
62	62	62	62	1	1	0	1	
63	63	63	63	1	1	0	1	
64	64	64	64	1	1	0	1	
65	65	65	65	1	1	0	1	
66	66	66	66	1	1	0	1	
67	67	67	67	1	1	0	1	
68	68	68	68	1	1	0	1	
69	69	69	69	1	1	0	1	
70	70	70	70	1	1	0	1	
71	71	71	71	1	1	0	1	
72	72	72	72	1	1	0	1	
73	73	73	73	1	1	0	1	
74	74	74	74	1	1	0	1	
75	75	75	75	1	1	0	1	
76	76	76	76	1	1	0	1	
77	77	77	77	1	1	0	1	
78	78	78	78	1	1	0	1	
79	79	79	79	1	1	0	1	
80	80	80	80	1	1	0	1	
81	81	81	81	1	1	0	1	
82	82	82	82	1	1	0	1	
83	83	83	83	1	1	0	1	
84	84	84	84	1	1	0	1	
85	85	85	85	1	1	0	1	
86	86	86	86	1	1	0	1	
87	87	87	87	1	1	0	1	
88	88	88	88	1	1	0	1	
89	89	89	89	1	1	0	1	
90	90	90	90	1	1	0	1	
91	91	91	91	1	1	0	1	
92	92	92	92	1	1	0	1	
93	93	93	93	1	1	0	1	
94	94	94	94	1	1	0	1	
95	95	95	95	1	1	0	1	
96	96	96	96	1	1	0	1	
97	97	97	97	1	1	0	1	
98	98	98	98	1	1	0	1	
99	99	99	99	1	1	0	1	
100	100	100	100	1	1	0	1	
101	101	101	101	1	1	0	1	
102	102	102	102	1	1	0	1	
103	103	103	103	1	1	0	1	
104	104	104	104	1	1	0	1	
105	105	105	105	1	1	0	1	
106	106	106	106	1	1	0	1	
107	107	107	107	1	1	0	1	
108	108	108	108	1	1	0	1	
109	109	109	109	1	1	0	1	
110	110	110	110	1	1	0	1	
111	111	111	111	1	1	0	1	
112	112	112	112	1	1	0	1	
113	113	113	113	1	1	0	1	
114	114	114	114	1	1	0	1	
115	115	115	115	1	1	0	1	
116	116	116	116	1	1	0	1	
117	117	117	117	1	1	0	1	
118	118	118	118	1	1	0	1	
119	119	119	119	1	1	0	1	
120	120	120	120	1	1	0	1	
121	121	121	121	1	1	0	1	
122	122	122	122	1	1	0	1	
123	123	123	123	1	1	0	1	
124	124	124	124	1	1	0	1	
125	125	125	125	1	1	0	1	
126	126	126	126	1	1	0	1	
127	127	127	127	1	1	0	1	
128	128	128	128	1	1	0	1	
129	129	129	129	1	1	0	1	
130	130	130	130	1	1	0	1	
131	131	131	131	1	1	0	1	
132	132	132	132	1	1	0	1	
133	133	133	133	1	1	0	1	
134	134	134	134	1	1	0	1	
135	135	135	135	1	1</td			

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OF OFFICES.	ILLUMINATING POWER.—STANDARD. 16 CANDLES.					SULPHUR PER 100 ALLOWANCE		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Test.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Ingersoll								
April			16.39	0	1			
May	18.19	12.55	15.23	1	2			
June			16.06	0	1			
July			16.00	0	1			
August			17.30	0	1			
September			16.71	0	1			
October			13.58	1	1			
November			15.58	1	1			
December			20.13	0	1			
January			16.85	0	1			
February			15.04	1	1			
March			17.13	0	1			
						4	13	
City of St. Thomas—								
April			16.69	0	1			
May	18.15	17.20	17.67	0	1			
June			17.98	0	1			
July			16.87	0	1			
August	19.80	18.79	19.29	0	2			
September			18.27	0	1			
October			17.78	0	1			
November			16.50	0	1			
December			16.81	0	1			
January			17.37	0	1			
February			17.00	0	1			
March			17.67	0	1			
						0	13	
Windsor—								
April			17.03	0	1			
May	17.40	16.69	17.04	0	2			
June	17.63	15.23	16.43	1	2			
July	15.45	15.27	15.36	2	2			
August	17.05	15.74	16.39	1	2			
September	16.90	16.10	16.50	0	2			
October			16.32	0	1			
November	16.73	15.92	16.32	1	2			
December			16.46	0	1			
January			16.33	0	1			
February			16.74	0	1			
March			16.00	0	1			
						5	18	

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909—*Continued.*

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Napanee—								
April.....			20.10	0	1			
May.....								
June.....								
July.....								
August.....								
September.....			21.06	0	1			
October.....			19.14	0	1			
November.....			21.08	0	1			
December.....			19.87	0	1			
January.....								
February.....			19.60	0	.1			
March.....								
				0	6			
Ottawa—								
April.....	16.51	16.34	16.42	0	8	14.92	14.61	14.76
May.....	16.85	16.06	16.45	0	8	14.75	14.58	14.66
June.....	16.78	16.34	16.53	0	10	14.93	14.37	14.65
July.....	16.75	16.27	16.50	0	8	14.97	14.47	14.72
August.....	16.65	16.28	16.45	0	8	14.85	14.63	14.74
September.....	16.66	16.35	16.43	0	10	14.85	14.58	14.71
October.....	16.79	16.29	16.50	0	8	14.85	14.38	14.61
November.....	16.72	16.23	16.49	0	8	27.30	14.95	21.12
December.....	16.68	16.32	16.51	0	10	14.66	14.58	14.62
January.....	16.68	16.39	16.48	0	8	14.95	14.63	14.79
February.....	16.64	16.27	16.46	0	8	14.75	14.29	14.52
March.....	16.62	16.29	16.45	0	10	14.81	14.29	14.55
				0	104			
Owen Sound—								
April.....			16.20	0	1			
May.....			16.28	0	1			
June.....			17.00	0	1			
July.....			16.30	0	1			
August.....			16.71	0	1			
September.....			16.50	0	1			
October.....			16.33	0	1			
November.....			16.50	0	1			
December.....			17.00	0	1			
January.....			16.12	0	1			
February.....			16.50	0	1			
March.....			16.25	0	1			
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

inspected during the year ended March 31, 1909—Continued.

CUBIC FEET. 35 Grains.	AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.			SULPHURETTED HYDROGEN.	REMARKS					
	No. of Tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of Tests.	No. of times ab- sent.	No. of times pre- sent.	No. of Tests.	
	Grains.	Grains.	Grains.							
0	1.96	1.77	1.86	0	0	1	0	1	0	Gas works burned up.
0	2.22	2.18	2.20	0	0	1	0	1	0	Gas works not re- built yet.
0	2.18	2.12	2.15	0	0	1	0	1	0	
0	2.20	2.16	2.18	0	0	1	0	1	0	
0	2.26	2.16	2.21	0	0	1	0	1	0	
0	2.18	2.13	2.15	0	0	1	0	1	0	
0	2.16	2.18	2.17	0	0	1	0	1	0	No test. Pressure gauge broken.
0	2.17	1.34	1.75	0	0	1	0	1	0	No test. Photo- meter broken.
0	1.22	2.03	2.12	0	0	1	0	1	0	
0	1.86	1.23	1.54	0	0	1	0	1	0	
0	2.16	1.77	1.96	0	0	1	0	1	0	
0	2.20	2.13	2.21	0	0	1	0	1	0	
0	24				0	24	104	0	104	
0										
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						1	0	1	1	
0						12	0	12	12	

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times low Standard.	No. of Test	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Peterborough—								
April	17.20	16.80	17.00	0	2	.....	.....	.....
May	20.40	17.40	18.90	0	2	.....	.....	.....
June	21.00	19.20	20.10	0	2	.....	.....	.....
July	20.20	18.80	19.50	0	2	.....	.....	.....
August	20.40	19.00	19.70	0	2	.....	.....	.....
September	17.20	16.80	17.00	0	2	.....	.....	.....
October	18.00	17.20	17.60	0	2	.....	.....	.....
November	17.60	16.80	17.20	0	2	.....	.....	.....
December	18.10	17.00	17.55	0	2	.....	.....	.....
January	17.80	16.60	17.20	0	2	.....	.....	.....
February	17.20	16.40	16.80	0	2	.....	.....	.....
March	18.60	18.00	18.30	0	2	.....	.....	.....
				0	24			
Sarnia—								
April	20.30	0	1	.....	.....	.....	.....	.....
May	19.04	0	1	.....	.....	.....	.....	.....
June	19.96	0	1	.....	.....	.....	.....	.....
July	17.44	0	1	.....	.....	.....	.....	.....
August	17.44	0	1	.....	.....	.....	.....	.....
September	19.56	0	1	.....	.....	.....	.....	.....
October	20.30	0	1	.....	.....	.....	.....	.....
November	20.72	0	1	.....	.....	.....	.....	.....
December	19.86	0	1	.....	.....	.....	.....	.....
January	19.92	0	1	.....	.....	.....	.....	.....
February	19.34	0	1	.....	.....	.....	.....	.....
March	19.72	0	1	.....	.....	.....	.....	.....
				0	12			
Stratford—								
April	.....	.....	.....	.....	.....	.....	.....	.....
May	17.54	0	1	.....	.....	.....	.....	.....
June	16.80	0	1	.....	.....	.....	.....	.....
July	17.23	0	1	.....	.....	.....	.....	.....
August	17.22	0	1	.....	.....	.....	.....	.....
September	17.36	0	1	.....	.....	.....	.....	.....
October	16.60	0	1	.....	.....	.....	.....	.....
November	16.40	0	1	.....	.....	.....	.....	.....
December	17.09	0	1	.....	.....	.....	.....	.....
January	16.96	0	1	.....	.....	.....	.....	.....
February	16.94	0	1	.....	.....	.....	.....	.....
March	16.00	0	1	.....	.....	.....	.....	.....
				0	11			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909—Continued.

CUBIC FEET. 35 Grains.	AMMONIA PER 100 CUBIC FEET.			SULPHURIC HYDROGEN.				
	Allowance—4 Grains.							
No. of Tests	Hydrogen	Liquid	Allowance	No. of Tests	No. of time absent.	No. of time present.	No. of Tests	REMARKS.
	Grains.	Grains.	Grains.					
10	2	12		10	0	11	11	11
11	0	11		11	1	10	10	10
12	1	11		12	1	11	11	11
13	1	12		13	1	12	12	12
14	1	13		14	1	13	13	13
15	1	14		15	1	14	14	14
16	1	15		16	1	15	15	15
17	1	16		17	1	16	16	16
18	1	17		18	1	17	17	17
19	1	18		19	1	18	18	18
20	1	19		20	1	19	19	19
21	1	20		21	1	20	20	20
22	1	21		22	1	21	21	21
23	1	22		23	1	22	22	22
24	1	23		24	1	23	23	23
25	1	24		25	1	24	24	24
26	1	25		26	1	25	25	25
27	1	26		27	1	26	26	26
28	1	27		28	1	27	27	27
29	1	28		29	1	28	28	28
30	1	29		30	1	29	29	29
31	1	30		31	1	30	30	30
32	1	31		32	1	31	31	31
33	1	32		33	1	32	32	32
34	1	33		34	1	33	33	33
35	1	34		35	1	34	34	34
36	1	35		36	1	35	35	35
37	1	36		37	1	36	36	36
38	1	37		38	1	37	37	37
39	1	38		39	1	38	38	38
40	1	39		40	1	39	39	39
41	1	40		41	1	40	40	40
42	1	41		42	1	41	41	41
43	1	42		43	1	42	42	42
44	1	43		44	1	43	43	43
45	1	44		45	1	44	44	44
46	1	45		46	1	45	45	45
47	1	46		47	1	46	46	46
48	1	47		48	1	47	47	47
49	1	48		49	1	48	48	48
50	1	49		50	1	49	49	49
51	1	50		51	1	50	50	50
52	1	51		52	1	51	51	51
53	1	52		53	1	52	52	52
54	1	53		54	1	53	53	53
55	1	54		55	1	54	54	54
56	1	55		56	1	55	55	55
57	1	56		57	1	56	56	56
58	1	57		58	1	57	57	57
59	1	58		59	1	58	58	58
60	1	59		60	1	59	59	59
61	1	60		61	1	60	60	60
62	1	61		62	1	61	61	61
63	1	62		63	1	62	62	62
64	1	63		64	1	63	63	63
65	1	64		65	1	64	64	64
66	1	65		66	1	65	65	65
67	1	66		67	1	66	66	66
68	1	67		68	1	67	67	67
69	1	68		69	1	68	68	68
70	1	69		70	1	69	69	69
71	1	70		71	1	70	70	70
72	1	71		72	1	71	71	71
73	1	72		73	1	72	72	72
74	1	73		74	1	73	73	73
75	1	74		75	1	74	74	74
76	1	75		76	1	75	75	75
77	1	76		77	1	76	76	76
78	1	77		78	1	77	77	77
79	1	78		79	1	78	78	78
80	1	79		80	1	79	79	79
81	1	80		81	1	80	80	80
82	1	81		82	1	81	81	81
83	1	82		83	1	82	82	82
84	1	83		84	1	83	83	83
85	1	84		85	1	84	84	84
86	1	85		86	1	85	85	85
87	1	86		87	1	86	86	86
88	1	87		88	1	87	87	87
89	1	88		89	1	88	88	88
90	1	89		90	1	89	89	89
91	1	90		91	1	90	90	90
92	1	91		92	1	91	91	91
93	1	92		93	1	92	92	92
94	1	93		94	1	93	93	93
95	1	94		95	1	94	94	94
96	1	95		96	1	95	95	95
97	1	96		97	1	96	96	96
98	1	97		98	1	97	97	97
99	1	98		99	1	98	98	98
100	1	99		100	1	99	99	99
101	1	100		101	1	100	100	100
102	1	101		102	1	101	101	101
103	1	102		103	1	102	102	102
104	1	103		104	1	103	103	103
105	1	104		105	1	104	104	104
106	1	105		106	1	105	105	105
107	1	106		107	1	106	106	106
108	1	107		108	1	107	107	107
109	1	108		109	1	108	108	108
110	1	109		110	1	109	109	109
111	1	110		111	1	110	110	110
112	1	111		112	1	111	111	111
113	1	112		113	1	112	112	112
114	1	113		114	1	113	113	113
115	1	114		115	1	114	114	114
116	1	115		116	1	115	115	115
117	1	116		117	1	116	116	116
118	1	117						

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Toronto—								
April.....	19.21	18.44	18.80	0	9	.....	.....	.....
May.....	18.89	18.28	18.62	0	9	.....	.....	.....
June.....	19.10	18.13	18.57	0	9	14.81	11.25	13.03
July.....	18.94	18.36	18.57	0	8	14.12	12.65	13.38
August.....	21.09	17.92	19.65	0	9	11.31	9.89	10.60
September.....	20.70	19.66	20.27	0	9	14.22	13.83	14.02
October.....	20.73	19.55	20.11	0	9	12.45	11.10	11.77
November.....	20.99	19.82	20.43	0	8	16.96	12.84	14.90
December.....	20.56	19.42	20.19	0	9	15.26	13.90	14.58
January.....	20.94	20.29	19.42	0	9	12.60	10.46	8.32
February.....	19.93	18.50	18.93	0	8	14.51	11.59	13.05
March.....	19.05	18.06	18.63	0	9	14.06	8.50	11.28
				0	105			
Woodstock -								
April.....	.....	.....	17.52	0	1	.....	.....	.....
May.....	.....	.....	16.47	0	1	.....	.....	.....
June.....	.....	.....	16.93	0	1	.....	.....	.....
July.....	.....	.....	17.15	0	1	.....	.....	.....
August.....	.....	.....	16.38	0	1	.....	.....	.....
September.....	.....	.....	16.86	0	1	.....	.....	.....
October.....	.....	.....	16.92	0	1	.....	.....	.....
November.....	.....	.....	16.85	0	1	.....	.....	.....
December.....	.....	.....	17.16	0	1	.....	.....	.....
January.....	.....	.....	16.42	0	1	.....	.....	.....
February.....	.....	.....	16.98	0	1	.....	.....	.....
March.....	.....	.....	16.73	0	1	.....	.....	.....
				0	12			
Montreal—								
April.....	16.81	16.16	16.46	0	8	7.60	7.00	7.30
May.....	18.35	16.50	17.42	0	9	2.91	2.80	2.85
June.....	19.71	16.98	17.99	0	9	2.80	2.80	2.80
July.....	18.98	16.98	18.01	0	9	5.62	2.97	4.29
August.....	20.68	17.08	19.19	0	8	4.25	3.68	3.96
September.....	20.47	16.78	18.20	0	9	3.30	2.48	2.89
October.....	17.02	16.02	16.35	0	9	2.86	2.75	2.80
November.....	18.12	16.13	17.23	0	8	2.80	2.26	2.53
December.....	17.19	16.01	16.22	0	9	2.93	2.58	2.75
January.....	17.53	16.07	16.52	0	9	3.18	2.61	2.89
February.....	16.39	16.01	16.12	0	8	2.56	2.05	2.30
March.....	16.49	16.00	16.18	0	9	2.28	2.11	2.19
				0	104			

SESSIONAL PAPER No. 13

F.—Continued.

Inspected during the year ended March 31, 1909—*Continued.*

CUBIC FEET. 35 Grains.		AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.			SULPHURETED HYDROGEN.			REMARKS.	
No. of times in excess of allowance.	No. of Tests.	Highest.	Lowest.	Average.	Times in ex- cess of allow- ance.	No. of Tests.	No. of times absent.	No. of times present.	No. of Test.
		Grains.	Grains.	Grains.					
0	2	0.20	0.17	0.18	0	10	9	0	9
0	2	0.30	0.27	0.25	0	10	3	0	5
0	2	0.28	0.20	0.24	0	10	2	0	9
0	2	0.28	0.20	0.24	0	10	2	0	9
0	2	0.20	0.10	0.15	0	10	9	0	9
0	2	0.18	0.00	0.09	0	10	3	0	5
0	2	1.25	1.22	1.23	0	10	2	0	9
0	2	0.20	0.00	0.10	0	10	9	0	9
0	2	0.67	0.52	0.33	0	10	7	0	5
0	2	0.18	0.15	0.16	0	10	9	0	9
0	20				0	20	105	0	105
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						1	0	1
0	2						12	0	12
0	24				0	24	156	0	156

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER.—STANDARD. 16 Candles.				SULPHUR PER 100 Allowance —			
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Test.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Quebec								
April	17.87	0	1	20.55	16.86	18.70		
May	17.10	0	1	19.73	16.72	18.22		
June	18.00	0	1	17.95	17.94	17.95		
July	17.57	0	1	22.10	16.79	19.44		
August	17.23	0	1	19.56	17.75	18.65		
September	17.70	0	1	20.54	17.44	18.99		
October	17.32	0	1	19.56	17.29	18.42		
November	18.06	0	1	17.61	16.64	17.12		
December	16.43	0	1	19.75	16.29	18.02		
January	17.11	0	1	18.50	17.18	17.84		
February	17.12	0	1	18.00	16.05	17.02		
March	17.24	0	1	20.80	15.32	18.06		
				0	12			
Sherbrooke—								
April	18.29	0	1					
May	16.34	0	1					
June	16.65	0	1					
July	17.16	0	1					
August	19.64	0	1					
September	16.67	0	1					
October	15.22	1	1					
November	16.47	0	1					
December	17.17	0	1					
January	16.70	0	1					
February	13.15	1	1					
March	17.77	0	1					
				2	12			
St. Hyacinthe—								
April	18.17	0	1					
May	18.18	0	1					
June	18.13	0	1					
July	18.21	0	1					
August	18.37	0	1					
September	18.14	0	1					
October	18.76	0	1					
November	18.64	0	1					
December	18.58	0	1					
January	18.86	0	1					
February	18.46	0	1					
March	18.22	0	1					
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909—*Continued.*

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 CANDLES.					SULPHUR PER 100 ALLOWANCE—		
	Highest.	Lowest.	Average.	No. of times be- low Standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Fredericton—								
April			16.80	0	1			
May			17.11	0	1			
June			16.94	0	1			
July								
August			17.24	0	1			
September			17.08	0	1			
October			16.98	0	1			
November			17.13	0	1			
December			16.76	0	1			
January			16.80	0	1			
February			16.14	0	1			
March								
				0	10			
St. John—								
April	18.60	18.53	18.56	0	2			25.08
May	18.02	17.65	17.83	0	2			24.76
June	18.16	17.90	18.03	0	2			20.16
July	18.16	17.73	17.94	0	2			19.88
August	18.26	17.64	17.95	0	2			22.69
September	18.39	17.17	17.78	0	2			24.41
October	17.78	17.64	17.71	0	2			20.85
November	18.09	17.13	17.61	0	2			22.58
December	17.52	17.48	17.50	0	2			23.89
January	17.59	17.22	17.40	0	2			23.76
February	16.99	16.94	16.96	0	2			21.26
March	17.60	17.08	17.36	0	3			22.54
				0	25			
Moncton—								
April			18.76	0	1			
May			19.83	0	1			
June			18.51	0	1			
July			19.10	0	1			
August			18.10	0	1			
September			18.65	0	1			
October			18.66	0	1			
November			18.40	0	1			
December			18.73	0	1			
January			19.07	0	1			
February			18.87	0	1			
March			19.34	0	1			
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the Year ended March 31, 1909—*Continued.*

CUBIC FEET. 25 GRAINS.		AMMONIA PER 100 CUBIC FEET. ALLOWANCE—4 GRAINS			SULPHURETTED HYDROGEN.				
No. of Tests in excess of al- lowance.	No. of Tests	Highest.	Lowest.	Average.	No. of Tests	No. of times ab- sent.	No. of times pre- sent.	No. of Tests	REMARKS.
		Grains.	Grains.	Grains.					
					Times in excess of allowance				
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	2	0	2	2	
0	1	0.00	0	1	3	0	3	3	
0	12		0	12	25	0	25	25	
						1	0	1	
						1	0	1	
						1	0	1	
						1	0	1	
						1	0	1	
						1	0	1	
						1	0	1	
						1	0	1	
						1	0	1	
						1	0	1	
						12	0	12	

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 Candles.				SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below standard.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.		No. of Tests.	Grains.	Grains.
Halifax							
April	17.02	0	1				16.86
May	17.20	0	1				17.63
June	17.57	0	1				17.02
July	17.06	0	1				11.87
August	17.45	0	1				25.22
September	16.39	0	1				33.63
October	16.84	0	1				19.35
November	18.03	0	1				28.51
December	17.21	0	1				25.11
January	16.39	0	1				19.45
February	17.24	0	1				20.67
March	17.20	0	1				18.45
				0	12		
Yarmouth							
April	17.58	0	1				
May	16.85	0	1				
June	17.10	0	1				
July	17.41	0	1				
August	17.41	0	1				
September	17.50	0	1				
October	17.10	0	1				
November	16.81	0	1				
December	17.64	0	1				
January	17.10	0	1				
February	17.10	0	1				
March	17.56	0	1				
				0	12		
Charlottetown—							
April	17.04	0	1				
May	18.20	0	1				
June	18.69	0	1				
July	14.96	1	1				
August	17.59	0	1				
September	17.83	0	1				
October	19.81	0	1				
November	18.00	0	1				
December	16.54	0	1				
January	16.99	14.21	15.81	3	7		
February	20.05	14.78	17.54	1	4		
March	23.01	17.94	20.50	0	4		
				5	24		

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the Year ended March 31, 1909.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—Standard, 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below stand- ard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Winnipeg—								
April	18.19	16.87	17.65	0	3	.....	.....	.....
May	18.58	16.52	17.88	0	9	.....	.....	.....
June	18.10	16.70	17.32	0	3	.....	.....	.....
July	18.90	16.73	17.54	0	9	.....	.....	.....
August	17.28	16.43	16.98	0	8	.....	.....	.....
September	18.16	16.43	17.37	0	9	.....	.....	.....
October	18.10	16.58	17.18	0	9	.....	.....	.....
November	18.90	16.93	17.70	0	8	.....	.....	.....
December	18.12	16.84	17.47	0	8	.....	.....	.....
January	18.12	16.84	17.43	0	10	.....	.....	.....
February	18.03	16.87	17.27	0	8	.....	.....	.....
March	18.02	16.27	17.29	0	7	.....	.....	.....
				0	101			
Nanaimo—								
April	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	.....	.....	.....	.....	.....	.....	.....
August	.....	.....	.....	.....	.....	.....	.....	.....
September	.....	16.91	0	1	.....	.....	.....	.....
October	.....	17.30	0	1	.....	.....	.....	.....
November	.....	16.24	0	1	.....	.....	.....	.....
December	.....	18.76	0	1	.....	.....	.....	.....
January	.....	16.09	0	1	.....	.....	.....	.....
February	.....	17.69	0	1	.....	.....	.....	.....
March	.....	17.21	0	1	.....	.....	.....	.....
				0	7			
New Westminster—								
April	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....
July	.....	19.21	0	1	.....	.....	.....	.....
August	.....	20.72	0	1	.....	.....	.....	.....
September	.....	19.33	0	1	.....	.....	.....	.....
October	.....	19.55	0	1	.....	.....	.....	.....
November	.....	19.72	0	1	.....	.....	.....	.....
December	.....	19.01	0	1	.....	.....	.....	.....
January	.....	19.15	0	1	.....	.....	.....	.....
February	.....	19.07	0	1	.....	.....	.....	.....
March	.....	18.89	0	1	.....	.....	.....	.....
				0	9			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the Fiscal Year ended March 31, 1909.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.			No. of times below Standard.	No. of Tests.	SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.			Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Vancouver—								
April			16.50	0	1			
May			16.75	0	1			
June			16.50	0	1			
July			17.00	0	1			
August	17.00	16.50	16.75	0	2			
September	17.50	16.50	16.93	0	4			
October	17.00	16.04	16.63	0	6			
November	17.40	16.00	16.60	0	8			
December	18.04	16.35	17.26	0	8			
January	18.18	16.00	16.98	0	10			
February	18.40	16.00	16.90	0	8			
March	16.60	16.00	16.37	0	8			
				0	58			
Victoria—								
April								
May			17.38	0	1			
June			17.30	0	1			
July			17.05	0	1			
August			17.13	0	1			
September								
October			16.80	0	1			
November								
December								
January								
February			17.60	0	1			
March								
				0	6			

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

F—Concluded.

Inspected during the year ended March 31, 1909.

W. J. GERALD,
Deputy Minister.

— 1 —

卷之三

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor discoloration and faint, illegible markings. A vertical line is drawn on the left side, and there are several horizontal lines across the page, possibly from a previous page or a binding process. The overall tone is off-white or light beige.

SESSIONAL PAPER No. 13

APPENDIX H

Statement of Electric Light Inspection, Expenditures and Revenues, for the Fiscal
Year ended March 31, 1909.

INLAND REVENUE DEPARTMENT,
OTTAWA, ONTARIO, CANADA.

W. J. GERALD, *Deputy Minister*

9-10 EDWARD VII., A. 1910

APPENDIX I.

STATEMENT showing the number of Electric Meters Verified, Rejected and Verified after first rejection for the Fiscal Year ended March 31, 1909.

Districts.	Presented for verification.	Verified as coming within the error tolerated by law.			Rejected.		Verified after first rejection.		Totals.		
		Correct.		Fast.	Slow.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.
		Fast.	Slow.	Fast.	Slow.	Fast.	Slow.	Fast.	Slow.	Fast.	Slow.
Belleville	1,174	665	199	310	...	...	...	...	...	1,174	...
Hamilton	2,561	922	410	1,228	...	1	...	...	...	2,560	1
London	1,563	769	423	360	1	8	2	...	...	1,552	11
Ottawa	3,990	978	1,502	1,475	34	1	...	...	...	3,955	35
Toronto	6,654	2,032	2,788	1,796	...	19	19	...	...	6,616	38
Montreal	7,524	2,556	4,746	214	...	4	4	...	...	7,516	8
Quebec	643	378	202	63	...	...	...	...	...	643	...
Sherbrooke	437	215	124	97	...	...	...	...	...	437	...
St. Hyacinthe	391	98	203	89	...	1	...	...	...	390	1
Three Rivers	260	155	52	53	...	...	...	...	...	260	...
St. John	1,152	54	316	285	...	3	...	...	...	1,149	3
Halifax	1,751	1,711	11	10	7	6	6	...	...	1,732	19
Charlottetown	334	135	118	72	6	...	3	...	...	325	9
Winnipeg	2,910	1,854	420	636	...	...	...	...	...	2,910	...
Calgary	2,151	893	559	699	...	...	...	...	...	2,151	...
Vancouver	3,797	663	1,437	1,697	...	...	...	...	...	3,797	...
Victoria	1,709	1,139	263	307	...	...	...	...	...	1,709	...
Grand totals	39,001	15,712	13,773	9,391	48	43	34	...	...	38,876	125

W. J. GERALD,
Deputy Minister

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the year ended
March 31, 1909.

APPENDIX A

Districts.	Name of Company.	Number of LAMPS.				Totals.
		Certificates issued.	for Fiscal Year.	Arc.	Incand. descant.	
Bathurst						
	The Corporation of Peterborough	11	6,300	0	0	6,710
	The Frankford Electric Light Co., Ltd.	390	390	0	0	390
	The Trenton Electric and Water Co., Ltd.	13,127	14,077	0	0	14,077
	The Marion Electric Co., Ltd.	766	766	0	0	766
	The Corporation of Madoc	1,290	1,290	0	0	1,290
	Parr & Son, Ltd., Peterborough	600	600	0	0	600
	W. P. Niles, Wellington	1,180	1,180	0	0	1,180
	The Tweed Electric Light and Power Co.	1,270	1,270	0	0	1,270
	St. Lawrence Power Co., Ltd., Middle Roads	3,200	3,200	0	0	3,200
	The Vankleek Hill Electric Light Co., Ltd.	1,460	1,460	0	0	1,460
	Corporation of the Town of Weston	1,530	1,530	0	0	1,530
	Stormont Electric Light and Power Co., Cornwall	2,850	2,850	0	0	2,850
	Joseph Bishop & Son, Crayford	400	400	0	0	400
	Hawkesbury Electric Light and Power Co., Ltd.	2,322	2,322	0	0	2,322
	The Benjamin Manufacturing Co. of Yarker, Ltd.	300	300	0	0	300
	A. Connolley, Yarker	125	125	0	0	125
	School of Mining, Kingston	125	125	0	0	125
	Corporation of the City of Kingston	150	150	0	0	150
	Corporation of Napanee	8,400	8,400	0	0	8,400
	The Cobourg Utilities Corporation, Ltd.	1,800	1,800	0	0	1,800
	Port Hope Electric Light and Power Co., Ltd.	2,200	2,200	0	0	2,200
	Port Hope Utilities Corporation, Ltd.	2,660	2,660	0	0	2,660
	Geo. H. Davidson, Brighton	5,310	5,310	0	0	5,310
	Peterborough Electric Light and Power Co., Ltd.	640	640	0	0	640
	Fowlers Co., Ltd., Hastings	22,500	22,500	0	0	22,500
	The Board of Water, Light and Power Commission, Fenelon Falls	800	800	0	0	800
	The Light, Heat and Power Co., Ltd., Lindsay	1,515	1,515	0	0	1,515
	W. C. Harrison, Norwood	12,000	12,000	0	0	12,000
	The Corporation of the Town of Campbellford	700	700	0	0	700
	D. J. Galbraith, Newcastle	2,934	2,934	0	0	2,934
		400	400	0	0	400
		10	10	0	0	10

9-10 EDWARD VII., A. 1910

APPENDIX J—Continued.

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the year ended
March 31, 1909—Continued.

Districts.	Name of Company.	Number of LAMPS.				Totals.
		Certificate by whom issued.	Certificate for Fiscal Year.	Arc.	Incan- descnt.	
Br. Llevile.	Otonabee Power Co., Ltd., Peterboro'.	11	C. I. R., Peterborough	1908 09	20	12,200
	The Lavelock Electric Light and Power Co., Ltd.	12	"	"	13	1,280
	The Lakefield Electric Light Co.	13	"	"	8	1,380
	Bobcaygeon Electric Light Commission	14	"	"	22	930
	J. H. Goodrich and G. M. Peebles, Collborne	15	"	"	800	800
	Stephenson Bros., Omemee	16	"	"	400	400
	Davidson & Harrington, Millbrook	17	"	"	400	460
	Bowmanville Electric Light Co., Ltd.	18	C. I.R., Prescott	1908 09	17	1,700
	Water and Light Commissioners, Prescott.	19	"	"	10	4,100
	The Brockville Light and Power Department	20	"	"	400	5,990
	Kemptville Milling Co. Ltd.	21	"	"	100	1,500
	Gananoque Electric Light and Water Supply Co., Ltd.	22	"	"	25	1,750
	Morrisburg Electric Light and Power Co.	23	"	"	3,000	3,000
	Merrickville Electric Light and Power Co.	24	"	"	475	485
	Municipality of the Village of Iroquois	25	"	"	13	1,026
	Cardinal Electric Light Co., Ltd.	26	"	"	1,500	1,500
	The Westford Electric Light and Milling Co., Ltd.	27	"	"	653	653
	Frank Elliott, Winchester	28	"	"	500	500
	Simco Gas and Water Co., Ltd.	29	C. I.R., Brantford	1908 09	30	300
	Corporation of the Town of Paris	30	"	"	35	2,500
	Western Counties Electric Companies, Brantford	31	"	"	300	25,000
	Tillsonburg Electric Light Works	32	"	"	5	2,850
	The Brantford Street Railway Co.	33	"	"	150	150
	Herbert Webster, Norwich	34	"	"	1,671	1,671
	James Munro, Embro	35	"	"	430	430
	Woodstock Water and Light System	36	"	"	8,000	8,000
	The Ingersoll Electric Power and Light Co., Ltd.	37	"	"	3,040	3,040
	Delhi Light and Power Co., Ltd.	38	"	"	700	700
	The Hamilton Cataract Power, Light and Traction Co., Ltd.	39	"	"	500	500
	The Hamilton Electric Light and Power Co., Ltd.	40	"	"	106,000	112,500
	The Electric Power and Manufacturing Co., Ltd., Hamilton	41	"	"	200	200
	The Dundas Electric Co., Ltd.	42	"	"	3,141	3,191

SESSIONAL PAPER No. 13

INLAND REVENUES

9-10 EDWARD VII., A. 1910

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the Year ended
March 31, 1909—*Continued.*

Districts.	Name of Company.	Serial No.	Certificate by whom Issued.	Number of Lamps.		Totals.
				Certificate for Fiscal Year.	Arc.	
London.....	W. H. McMackon, Ridgeway.....	9	C. I. R., Windsor.....	1908 00	15	1,200
	Chatham Gas Co., Ltd.....	10	" "	"	25	10,000
	Amherstburg Electric Light, Heat and Power Co.....	11	" "	"	1,400	10,250
	Charles E. Naylore, Essex.....	12	" "	"	1,200	1,400
	Corporation of the Town of Blenheim.....	13	" "	"	17	1,280
	The Premier Electric Light, Heat and Power Co., Ltd., Wallaceburg.....	14	" "	"	31	1,570
	James A. Secord, Harrow.....	15	" "	"	700	1,955
	Wigle Bros., Windsor.....	16	" "	"	300	700
	The Corporation of the City of Windsor.....	17	" "	"	300	300
Ottawa.....	Corporation of the City of Ottawa.....	1	C. I. R., Ottawa.....	1908 00	800	1,900
	Ottawa Electric Co.....	2	" "	"	712	52,716
	Deschênes Electric Co., Ottawa.....	3	" "	"	8	173,934
	Hull Electric Co., Hull and Aylmer.....	4	" "	"	63	2,700
	Albert MacLaren, Buckingham.....	5	" "	"	45	9,216
	Corporation of the town of Sudbury.....	1	C. I. R., Perth.....	1908 00	35	9,846
	Canadian Copper Co., Copper Cliff.....	2	" "	"	49	3,300
	Pembroke Electric Light Co., Ltd.....	3	" "	"	45	4,643
	Smith's Falls Electric Power Co., Ltd.....	4	" "	"	80	6,150
	John D. McRae, Eganville.....	5	" "	"	5,000	5,800
	The Dowd Milling Co., Pakenham.....	6	" "	"	1,200	1,200
	Corporation of the town of Perth.....	7	" "	"	450	450
	Liskeard Light, Heat and Power Co., Ltd., New Liskeard.....	8	" "	"	55	550
	The Haileybury Electric Co.....	9	" "	"	22	1,850
	North Bay Light, Heat and Power Co.....	10	" "	"	18	1,900
	Corporation of the town of Almonte.....	11	" "	"	33	2,070
	The Arnprior Light and Power Co., Ltd.....	12	" "	"	19	4,000
	Mattawa Electric Light and Power Co., Ltd.....	13	" "	"	11	4,330
	Renfrew Electric Co., Ltd.....	14	" "	"	54	5,000
	Renfrew Power Co., Ltd.....	15	" "	"	51	5,190
	Canadian Electric and Water Power Co., Ltd., Perth.....	16	" "	"	3,800	5,540
	Sturgeon Falls Electric Light and Power Co., Ltd.....	17	" "	"	3,900	5,685
	Carleton Place Electric Light Co.....	18	" "	"	4,500	4,500
	The Citizens' Electric Co., Ltd., Smith's Falls.....	19	" "	"	2,700	2,000
						2,800
						1,800

SESSIONAL PAPER No. 13

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43							

Waterloo Electric Light and Power Co.

INLAND REVENUES

9-10 EDWARD VII., A. 1910

APPENDIX J—*Continued.*

STATEMENT showing the Electric Light Companies registered under the Electric Inspection Act, during the Year ended
March 31, 1909—*Continued.*

Districts.	Name of Company.	Number of LAMPS.			Totals.
		By whom Certificate issued.	Certificate for Fiscal Year.	Arc.	
			1908-09		
Toronto	Corporation of Gravenhurst	"	"	35	2,500
	Brampton Electric Light Co.	"	"	2,200	2,550
	Blind River Light, Heat & Power Co.	"	"	2,000	2,000
	Little Current Lumber Co.	"	"	571	621
	The Monarch Supply Co., Ltd., Toronto	"	"	500	700
	Sunderland Electric Power Co., Ltd.	"	"	592	592
	Corporation of East Toronto.	"	"	590	834
	Corporation of Tottenham.	"	"	501	590
	Corporation of Milton.	"	"	1,500	1,700
	Corporation of Bracebridge	"	"	3,500	3,630
	W. H. Summerfeldt & Son, Sutton	"	"	420	420
	Corporation of Streetsville.	"	"	490	490
	C. W. Watson, Orangeville.	"	"	1,600	1,600
	L. J. Gould, Uxbridge.	"	"	1,170	1,290
	Cannington Electric Light Co.	"	"	350	470
	Corporation of the Village of Port Perry	"	"	650	670
	The Cataract Electric Light Co., Ltd., Orangeville	"	"	600	890
	Corporation of the Village of Weston.	"	"	800	1,020
	Alliston Electric Light Co.	"	"	1,500	1,600
	Simon Pless, Remore.	"	"	500	500
	J. C. McClelland & Co., Powassan	"	"	400	400
	Corporation of the Town of Huntsville	"	"	2,700	2,740
	Corporation of the Town of Parry Sound	"	"	4,000	4,140
	Corporation of the Village of Markham.	"	"	500	500
	Corporation of New Market.	"	"	3,000	3,000
	Corporation of the Town of Thessalon.	"	"	900	1,030
	The Stock Telephone, Light & Power System, West Toronto	"	"	14,000	15,830
	Corporation of the Town of Midland.	"	"	4,500	4,750
	G. Copeland & Son, Elmvale	"	"	600	800
	Togana Water & Light Co., Sault Ste. Marie	"	"	11,417	13,607
	Corporation of the Town of Orillia	"	"	50	8,507
	Oshawa Electric Light Co., Ltd.	"	"	20	3,200

SESSIONAL PAPER No. 13

Central Heat, Light & Power Co., Ltd., Montreal	1	1 R., Montreal	1000	00	65
St. Jerome Power & Electric Light Co., Ltd.	2	2 R., Montreal	1000	00	65
Beaubien's Electric Light Co.	3	3 R., Montreal	1000	00	65
The Corporation of the Village of L'Assomption	4	4 R., Montreal	1000	00	65
Valleyfield Electric Co., Ltd.	5	5 R., Montreal	1000	00	65
John F. Acheson, Electrician	6	6 R., Montreal	1000	00	65
Montreal Light, Heat & Power Co., Ltd.	7	7 R., Montreal	1000	00	65
The Dominion Water & Power Co., Ltd., no. 200, rue Viger, Montreal	8	8 R., Montreal	1000	00	65
La Compagnie d'Électricité de Québec	9	9 R., Montreal	1000	00	65
Corporation of Westmount	10	10 R., Montreal	1000	00	65
The Corporation of the Town of Lachute	11	11 R., Montreal	1000	00	65
The Saguenay Electric Light & Power Co., Montreal	12	12 R., Montreal	1000	00	65
Joseph Cyr, St. Charles	13	13 R., Montreal	1000	00	65
The Québec-Jacques Cartier Electric Co.	14	14 R., Montreal	1000	00	65
La Compagnie Hydroélectrique du Saguenay, Ltee.	15	15 R., Montreal	1000	00	65
L. P. H. & H. Electric Co., Ltd., Montreal	16	16 R., Montreal	1000	00	65
Quebec Railway Light & Power Co., Ltd.	17	17 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	18	18 R., Montreal	1000	00	65
La Côte-du-Montreal General Electric Co., Ltd.	19	19 R., Montreal	1000	00	65
Basin Electric Light & Power Co., Ltd., Montreal	20	20 R., Montreal	1000	00	65
The Lachine Electric Power Co., Ltd., Montreal	21	21 R., Montreal	1000	00	65
Champlain Electric Power Co., Ltd., Montreal	22	22 R., Montreal	1000	00	65
La Côte-du-Sud Electric Power Co., Ltd., Montreal	23	23 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	24	24 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	25	25 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	26	26 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	27	27 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	28	28 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	29	29 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	30	30 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	31	31 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	32	32 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	33	33 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	34	34 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	35	35 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	36	36 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	37	37 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	38	38 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	39	39 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	40	40 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	41	41 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	42	42 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	43	43 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	44	44 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	45	45 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	46	46 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	47	47 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	48	48 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	49	49 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	50	50 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	51	51 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	52	52 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	53	53 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	54	54 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	55	55 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	56	56 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	57	57 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	58	58 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	59	59 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	60	60 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	61	61 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	62	62 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	63	63 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	64	64 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	65	65 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	66	66 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	67	67 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	68	68 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	69	69 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	70	70 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	71	71 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	72	72 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	73	73 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	74	74 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	75	75 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	76	76 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	77	77 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	78	78 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	79	79 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	80	80 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	81	81 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	82	82 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	83	83 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	84	84 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	85	85 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	86	86 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	87	87 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	88	88 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	89	89 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	90	90 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	91	91 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	92	92 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	93	93 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	94	94 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	95	95 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	96	96 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	97	97 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	98	98 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	99	99 R., Montreal	1000	00	65
La Compagnie du R. G. Power Co., Ltd.	100	100 R., Montreal	1000	00	65

Montreal.

Statement showing the Electric Light Companies registered under the Electric Light Inspection Act, during the Year ended
March 31, 1909—Continued.

Institutes.	Name of Company.	NUMBER OF LAMPS.			
		By whom Certificate issued.	Certificate for Fiscal year.	Arc.	Incan- descents.
Sherbrooke	The Corporation of the village of Sutton	20	C. I. R., Sherbrooke	1908 09	40
St. Hyacinthe	La Compagnie de Gaz, Electricité, & Pouvoir de St. Hyacinthe	1	C. I. R., St. Hyacinthe	1908 09	12,000
	Deslandes & Chevrotte, Acton Vale	2	"	"	12,400
	M. S. Connell & Sons, Stanbridge East	3	"	"	3,500
	The Arthabaska Water & Power Co., Victoriaville	4	"	"	200
	La Fonderie de Plessisville	5	"	"	5,000
	La Corporation de la ville de Drummondville	6	"	"	5,000
	G. Poulin, Farnham	7	"	"	2,800
	The St. John's Electric Light Co., Ltd.	8	"	"	1,000
	La Compagnie Électrique de Sorel	9	"	"	1,000
	Nelson Buzzell, Cowansville	10	"	"	1,500
	A. N. Dufresne, St. Césaire	11	"	"	5,160
Three Rivers	La Corporation de la ville de Joliette	1	C. I. R., Joliette	1908 09	78
	Dion & Paradis, St. Roch de l'Michigan	2	"	"	2,600
	The Laval Electric Co., Charlemagne	3	"	"	1,350
	The Laval Electric Co., L'Assomption	4	"	"	1,000
	The St. Maurice Light & Power Co., Shawinigan Falls	1	C. I. R., Three Rivers	1908-09	10
	The North Shore Power Co., Three Rivers	2	"	"	7,000
St. John	The St. John Railway Co.	1	C. I. R., St. John	1908-09	616
	The Sackville Electric Light & Telephone Co., Ltd.	2	"	"	30,000
	A. & R. Loggie, Loggieville	3	"	"	3,000
	Town of Newcastle	4	"	"	375
	The Kent Electric Co., Ltd., Richibucto	5	"	"	3,600
	The Corporation of Chatham	6	"	"	1,800
	The Sussex Manufacturing Co., Ltd.	7	"	"	3,000
	The St. Stephen Electric Light Co.	8	"	"	1,330
	The Bathurst Electric Water Power Co., Ltd.	9	"	"	2,501
					2,040

* About to begin operations.

9-10 EDWARD VII., A. 1910

INLAND REVENUES

ELECTRIC LIGHT INSPECTION

SESSIONAL PAPER No. 13

St. John.....	10	"	38	5,880
The Fredericton Gas Light Co.....	11	"	5	8,990
The City of Moncton Water & Light Department.....	12	"	5	2,500
The Corporation of Campbellton Electric Light Department.....	13	"	5	2,500
The Woodstock Electric Railway Light & Power Co.....	14	"	5	2,510
The King Lumber Co., Ltd., Chipman.....	15	"	1	210
C. M. Sherwood, Centreville.....	16	"	5	430
The Dorchester Electric Light and Power Co., Ltd.....	16	"	6	560
Halifax.....	1 C. I. R., Halifax.....	1908-09.....	383	46,670
Halifax Electric Tramway Co., Ltd.....	2	"	"	50,500
Town of Annapolis Royal Electric Light Works.....	3	"	4	1,200
Windsor Electric Light and Power Co., Ltd.....	4	"	3,000	3,040
Logan & Co., Electric Light Works, Shubenacadie.....	5	"	340	340
The Canada Electric Co., Ltd., Amherst.....	6	"	6,000	6,300
Acadia Electric Light Co., Wolfville.....	7	"	1,900	1,900
The Bridgetown Electric Light and Power Co., Ltd.....	8	"	850	850
Edison Electric Light and Power Co. of Spring Hill, Ltd.....	9	"	1,900	1,900
Kentville Electric Light and Power Co., Ltd.....	10	"	1,700	1,770
Town of Parrsboro Electric Light Works.....	11	"	1,000	1,000
The Milton Electric Light, Power and Manufacturing Co., Ltd.....	12	"	457	457
John Daley, Digby.....	13	"	800	800
Oxford Electric Co., Ltd.....	14	"	490	490
The Yarmouth Street Railway Co., Ltd.....	15	"	1,200	1,210
Board of Water Commissioners, Town of Mahone.....	16	"	500	500
Chambers' Electric Light and Power Co., Ltd., Truro.....	16	"	8,000	8,000
Dartmouth Gas Electric Light, Heating and Power Co., Ltd.....	17	"	3,000	3,000
Lunenburg Gas Co., Ltd.....	18	"	2,200	2,200
The Town of Bridgewater Electric Light Works.....	19	"	2,300	2,300
Bear River and Digby Electric Light, Heating and Power Co., Ltd.....	20	"	485	485
The Town of Liverpool Electric Light Works.....	21	"	1,950	2,200
Corporation of the Town of Picton.....	1 C. I. R., Picton.....	1908-09.....	35	3,850
Corporation of the Town of Glace Bay.....	2	"	6	9,060
Sydney Mines Electric Co.....	3	"	1	2,410
Cape Breton Electric Co., Ltd., Sydney.....	4	"	91	18,910
Cape Breton Electric Co., Ltd., North Sydney.....	5	"	28	3,619
Antigonish Electric Co.....	6	"	"	3,899
New Glasgow Electric Co., Ltd.....	7	"	48	1,200
Inverness Railway and Coal Co.....	8	"	8	10,480
The Port Hood Richmond Railway and Coal Co., Ltd.....	9	"	1	675
Acadia Coal Co., Ltd., Stellarton.....	10	"	1	755
Nova Scotia Steel and Coal Co., Ltd., Trenton.....	11	"	13	510
Sydney and Glace Bay Railway Co., Ltd.....	12	"	54	771
Summerside Electric Co., Ltd.....	1 C. I. R., Charlottetown.....	1908-09.....	20	641
Montague Electric Co., Ltd.....	2	"	"	600
Charlottetown Light and Power Co., Ltd.....	3	"	"	1,140
Winnipeg.....	1 C. I. R., Port Arthur.....	1908-09.....	115	60
Charlottetown.....	2	"	"	10,000
The Kaminiatiquia Power Co., Fort William.....	"	"	"	11,150
Corporation of the City of Port Arthur.....	"	"	"	14,382

* For Power purposes only.

9-10 EDWARD VII., A. 1910

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the Year ended
March, 31, 1909—Concluded.

Districts.	Name of Company.	NUMBER OF LAMPS.			Totals.
		By whom Certificate issued.	Certificate for Fiscal Year.	Arc.	
Winnipeg	Corporation of the Town of Kenora.....	3 C. I. R., Port Arthur.....	1908-09.....	90	7,000
	Rat Portage Lumber Co., Ltd., Rainy River.....	4 " " "	"	300	300
	Rainy River Lumber Co., Ltd.....	5 " " "	"	291	521
	Corporation of the Town of Neepawa.....	1 C. I. R., Winnipeg.....	1908-09.....	19	2,850
	Corporation of the Town of Carberry.....	2 " " "	"	16	1,760
	The Central Electric Co., Ltd., Portage la Prairie.....	3 " " "	"	13	4,130
	The Brandon Electric Light Co., Ltd.....	4 " " "	"	100	16,000
	The Corporation of the town of Dauphin.....	5 " " "	"	20	3,500
	The Selkirk Electric Light & Power Co., Ltd.....	6 " " "	"	2	1,600
	Winnipeg Electric Railway.....	7 " " "	"	213	151,823
	Town of Morden.....	8 " " "	"	1	1,200
	Corporation of the Town of Carman.....	9 " " "	"	1	1,800
	The Turtle Mountain Milling Co., Boissevain.....	10 " " "	"	750	750
	D. E. Craig, Minnedosa.....	11 " " "	"	5	2,050
Regina	The Corporation of the City of Moose Jaw.....	1 C. I. R., Moose Jaw.....	1908-09.....	41	7,000
	The Town of Battleford.....	2 " " "	"	21	600
	George Collison, Estevan.....	3 " " "	"	780	780
	The City of Saskatoon.....	4 " " "	"	4,000	4,280
	Townsend & Hutt, Milestone.....	5 " " "	"	280	280
	The City of Regina.....	6 " " "	"	61	20,058
	The City of Prince Albert.....	7 " " "	"	4,200	4,200
	The town of Indian Head.....	8 " " "	"	36	3,500
	The Moore Milling Co., Ltd., Qu'Appelle.....	9 " " "	"	7	870
	Weyburn Machine & Electric Light Co., Ltd.....	10 " " "	"	8	2,030
Edmonton	City of Strathcona.....	1 C. I. R., Calgary.....	1908-69.....	46	6,000
	City of Edmonton.....	2 " " "	"	84	28,000
	The Western General Electric Co., Ltd., Red Deer.....	3 " " "	"	15	1,960
	Lethbridge Electric Co., Ltd.....	4 " " "	"	14	1,400
	Fort Electric Co., Ltd., Fort Saskatchewan.....	5 " " "	"	5	1,200
	Blindman River Electric Power Co., Ltd., Lacombe.....	6 " " "	"	15	850
	Calgary Water Power Co., Ltd.....	7 " " "	"	14	12,000

SESSIONAL PAPER No. 13

Corporation of the City of Calgary	8	"	"	"	"	"	140	21,694	23,094
City of Wetaskiwin	9	"	"	"	"	"	17	1,500	1,670
The Municipality of the Town of Macleod	10	"	"	"	"	"	15	1,200	1,350
 Vancouver									
Corporation of the City of Revelstoke	1	C. I. R., Vancouver	1908-09				5	2,000	2,050
Corporation of the City of Vernon	2	"	"				1	1,900	1,900
Armstrong Light & Power Co., Ltd	3	"	"				750	760	
The Crow's Nest Pass Electric Light & Power Co., Ltd	4	"	"				3,449	3,459	
The Crows' Nest Pass Electric Light & Power Co., Ltd	5	"	"				1,100	1,100	
The Cranbrook Electric Light Co., Ltd	6	"	"				2,200	2,220	
Corporation of the City of New Westminster	7	"	"				14,000	15,350	
The Consolidated Mining & Smelting Co., Ltd., Trail	8	"	"				1,025	1,145	
Kootenay Electric Co., Ltd., Kaslo	9	"	"				750	750	
City of Kamloops	10	"	"				4,500	4,500	
Corporation of the City of Nelson	11	"	"				6,600	6,630	
British Columbia Electric Railway Co., Ltd., Ladner	12	"	"				1,365	1,365	
British Columbia Electric Railway Co., Ltd., Steveston	13	"	"				1,478	1,478	
British Columbia Electric Railway Co., Ltd., North Vancouver	14	"	"				3,449	3,859	
British Columbia Electric Railway Co., Ltd., Vancouver	15	"	"				192,130	202,100	*
The Cascade Water Power & Light Co., Ltd	16	"	"				5,000	5,380	
The West Kootenay Power & Light Co., Ltd., Rossland	17	"	"				428	448	
Sandon Water Works & Light Co	18	"	"				2	2	
The Daly Reduction Co., Ltd., Hedley	19	"	"				7	2,000	2,070
Greenwood City Waterworks Co	20	"	"				500	500	
The Ashcroft Water, Electric & Improvement Co	21	"	"				13	1,800	1,930
Corporation of the City of Grand Forks	22	"	"				21	1,500	1,710
Corporation of the City of Kelowna	23	"	"				625	625	
Summerland Development Co., Ltd	24	"	"						
 Victoria									
Cumberland Electric Light Co., Ltd	1	C. I. R., Victoria	1908-09				1,670	1,670	
Nanaimo Electric Light Co	2	"	"				4,100	4,670	
British Columbia Electric Railway Co., Ltd., Victoria	3	"	"				69,886	70,736	
Victoria Electric Co	4	"	"				304	304	
 Dawson							5,000	5,000	

* Plant not in operation at the present time.

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 18, 1909.

W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPENDIX K.

STATEMENT showing amount of Electrical Energy, generated for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the fiscal year ended March 31, 1909.

Name of Contractor.	Place of Business.	Units Generated for Export.	Units Generated for Consumption in Canada.	Total Output of Generating Station or other source.	License Fees.
Canadian Niagara Power Co.	Niagara Falls, Ont.	Kw. hours: 221,927,240	Kw. hours: 5,405,760	Kw. hours: 227,333,000	50 00
Electrical Development Co. of Ontario, Ltd.	" .	4,680,500	85,515,400	90,195,900	50 00
Maine & New Brunswick Electrical Power Co., Ltd.	Aroostook Falls, N.B.	841,764	3,940	845,704	25 00
Ontario Power Co. of Niagara Falls.	Niagara Falls, Ont.	131,833,782	44,150,580	175,984,362	50 00
Total		359,283,286	135,075,680	494,358,966	175 00

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

APPENDIX L.

STATEMENT showing amount of Natural Gas, produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the fiscal year ended March 31, 1909.

Name of Contractor.	Place of Business.	Units Generated for Export.	Units Generated for Consumption in Canada.	Total Output of Generating Station or other source.	License Fees
The Provincial Natural Gas & Fuel Company of Ontario, Limited.	Bridgebnrg, Ont..	Cub. ft. 387,019,000	Cub. ft. 462,707,000	Cub. ft. 849,726,000	50 00

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.